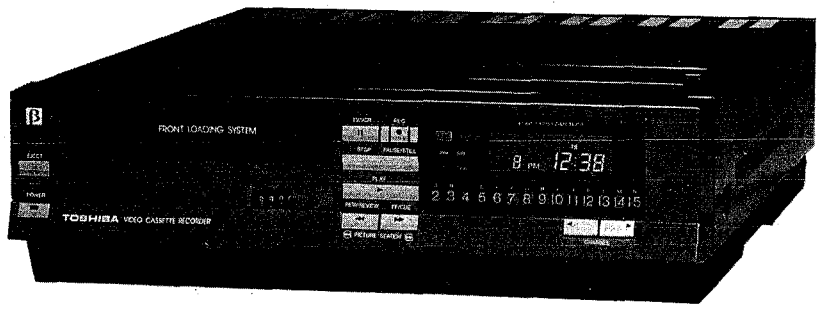
SERVICE DATA
FILE NO. 030-080

TOSHIBA

COLOR VIDEO CASSETTE RECORDER

V-C300



This model is basically same as Model V-M32T/C. For further information, please refer to Service Data for V-M32T/C (File No. 030-063).

SPECIFICATIONS

General

Video recording system:	Rotary two-head helical scanning
Head configuration:	2-head rotary (HEAD: A,B)
Video signal:	EIA standard NTSC color
Storage temperature:	−20°C to +60°C (−4°F to +140°F)
Operating temperature:	5°C to 40°C (41°F to 104°F)
Antenna:	75-ohm external antenna terminal (VHF/UHF)
Channel coverage:	VHF channels 2−13 UHF channels 14−83
VHF output signal:	Channel 3 or 4 (selectable) 75-ohm, unbalanced

Switch position	STD	CATV
V_L CH	2~6	2~6
V_H CH	A~1,7~13	A~1,7~13
U/C CH	14~83	J~W

Power consumption:	34W
Weight:	9.6 kg
Dimensions:	420×122×398 mm (W/H/D)

VIDEO

Input:	VIDEO LINE IN: Phono-type connector +1.0V (p-p) 1.0V (p-p) −0.5V (p-p) 75-ohm unbalanced, sync. negative

Video

Output:	VIDEO LINE OUT: Phono-type connector 1.0V (p-p) ±0.1V (p-p), 75-ohm unbalanced, sync, negative
Signal to noise ratio:	Better than 45 dB

AUDIO

Input:	AUDIO LINE IN: Phono-type, 50k-ohm, −10dBs
Output:	AUDIO LINE OUT Phono-type, less than 10k-ohms, −5dBs, unbalanced (load: more than 47k-ohm)
Frequency response:	50Hz to 8,000Hz
Signal to noise ratio:	Better than 40 dB
Audio distortion:	Less than 4% at 400Hz

TAPE TRANSPORT

Tape speed:	βII 20 mm/sec. βIII 13.3 mm/sec.
Maximum recording time	300 min. with Toshiba L-830 tape (βIII mode)
Fast forward time	Within 3.5 min. (L-500)
Rewind time:	Within 3.5 min. (L-500)

TIMER

Fluorescent digital display
Count down from AC line frequency

Design and specifications are subject to change without notice.

Caution: The unauthorized recording of television programes and other materials may infringe on the rights of others.

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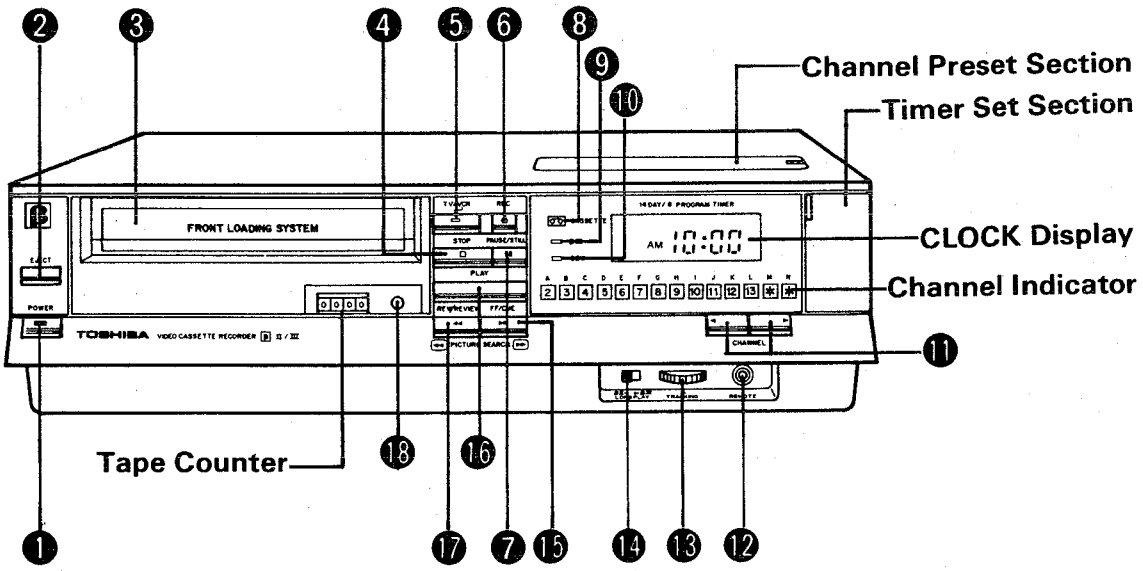
SECTION 1. GENERAL

IDENTIFICATION AND OPERATION OF CONTROLS



❶ POWER Switch
Turns VCR power on and off.
Operate this switch with an interval of more than 2 seconds.

❷ EJECT Button
Use to remove the cassette from the cassette compartment.

❸ Cassette Compartment
When the cassette is inserted in this compartment, the cassette will automatically be ready for operation. The cassette indicator lamp will light.

❹ STOP Button
Push to stop. All operating modes are cancelled.

❺ TV/VCR Switch
TV: Use for normal operation of the TV set when VCR is not in use or for recording a program while watching another.
(When turning on or off the VCR, TV/VCR switch is automatically set to TV position.)
VCR: Use to watch the playback picture or to monitor the recording program.
(When pushing the PLAY button, TV/VCR switch automatically set to the VCR position.)

Note: VCR lamp will light up when the TV/VCR switch is in VCR position.

❻ RECord Button
Push this button to record. If the safety tab has been removed from the cassette, it will not be possible to record, thereby preventing your recordings being accidentally erased.

❼ PAUSE/STILL Button
In the recording mode, you can stop the operation of the recorder temporarily. In the playback mode, a picture will appear in the STILL mode. (This switch is released automatically after 7 minutes. And the recorder will return to the previous function.)

❽ Cassette Indicator Lamp
When the cassette is correctly set in the VCR for the ready of operation, this cassette indicator lamp will light. In the Timer mode, this Cassette Indicator lamp turns OFF, if a cassette is set in the VCR.

❾ βIII Indicator Lamp
To indicate the tape speed. This light will be on when tape speed is βIII in Record or normal PLAYBACK mode.

❿ Dew Indicator Lamp
When moisture condenses on the head cylinder, the dew sensor will activate and stop all functions and the Dew Indicator Lamp will light. The VCR will not operate until the moisture has evaporated.

⓫ Channel Selector Buttons
Use to select the channels you wish to view or record.

⓬ REMOTE Control Jack
Used to connect the remote control unit.

⓭ TRACKING Knob
Used when playing cassettes recorded on other machines using the Beta system. Adjust this control to minimize black streaks across the TV picture during playback. Set the control in its center position when recording and during subsequent playback of cassettes recorded on this VCR.

⓮ LONG PLAY Switch
Select the tape speed in the recording mode. In the playback mode, tape speed is automatically changed to correct playback speed regardless of the position of this switch.

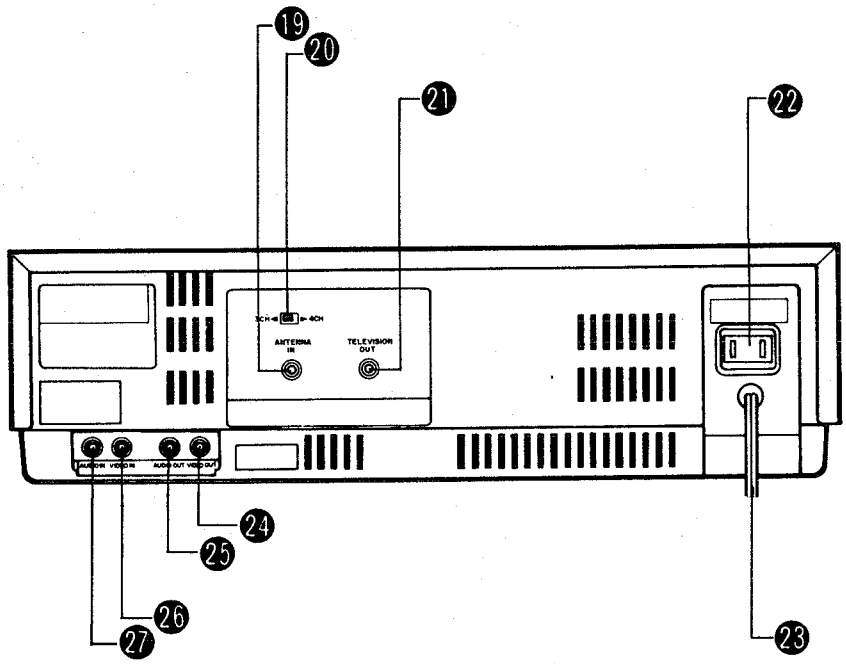
Mode / Cassette	Cassette Record Time	
	βII	βIII
L250	60 min	90 min
L500	120 min	180 min
L750	180 min	270 min
L830	200 min	300 min

⓯ FF/CUE Button
The FF/CUE Button serves a dual purpose. Push for fast forward the tape. When this button is pushed during the playback mode, the picture moves quickly forward (about 8 times the normal speed) and you can search for the desired part of the program.

⓰ PLAY Button
Push for playback recorded tape.

⓱ REW/REVIEW Button
The REW/REVIEW Button serves a dual purpose. Push for rewinding of the tape. When this button is pushed during the playback mode, the picture moves quickly backward (about 8 times the normal speed) and you can search for the desired part of the program.

⓲ Counter Reset Button
Used to set the tape counter to the '0000' position.



19 ANTENNA IN
Connect UHF/VHF antenna to this terminal.

20 VCR/VHF OUTput Channel Selector
Set the Channel Select Switch (VCR/VHF OUTput Channel Selector) to a locally inactive channel (channel 3 or 4);
If channel 3 is in use in your area, set this switch to the channel 4 position. When playing back a recording, the TV set must be set to the same channel.

21 TELEVISION OUT
Connect this terminal to your television ANTENNA terminals, using the accessories provided.

22 AC Supply Outlet
This terminal supplies AC power (120 Volts AC 60 Hz max power 400 watts). This power is supplied whether the Power Switch of VCR is ON or OFF.

23 Power Cord
Connect this cord into the AC outlet (AC 120V).

24 VIDEO OUT Terminal
Provides a video signal from the recorder for use by other equipment.

25 AUDIO OUT Terminal
An audio signal is available for use by other equipment.

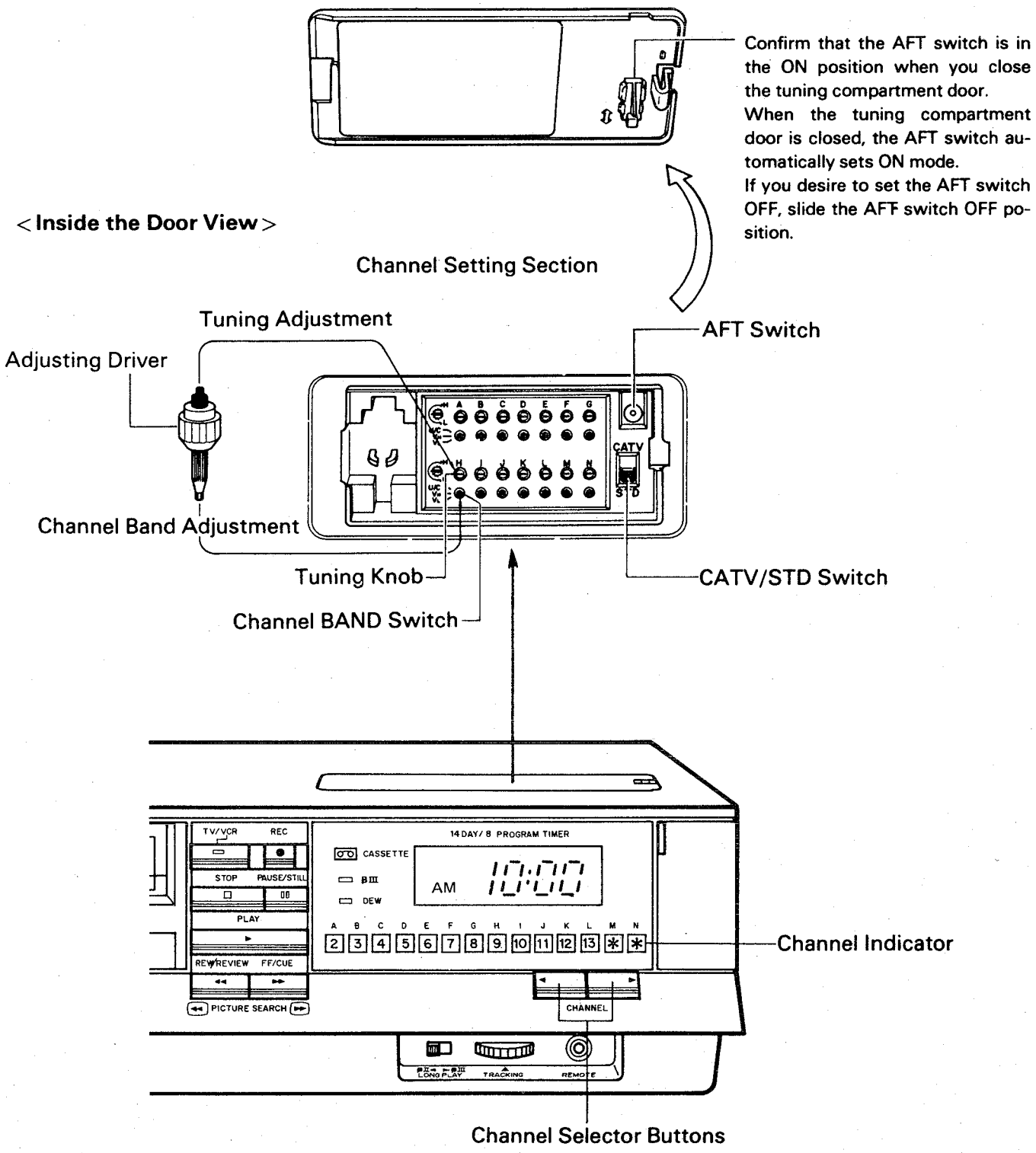
26 VIDEO IN Terminal
Used for connecting a video camera or other video equipment.
Connecting a plug into this jack cuts off the picture from the tuner and records the video signal connected into the "VIDEO IN" Jack.
Disconnecting the plug automatically resumes the picture from the tuner.

27 AUDIO IN Terminal
Used for connecting an audio input from other equipment.
Connecting a plug into this jack cuts off the audio signal coming from the tuner and records the audio signal connected to this "AUDIO IN" Jack. Disconnecting the plug automatically resumes the audio signal from the tuner.

"Note to CATV system installer:
This reminder is provided to call the CATV system installer's attention to Article 820-22 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical".

CHANNEL SETTING

This VCR is equipped with an Electronic Tuning System which gives you easy channel selection with push buttons. The tuning system consists of CHANNEL Selector Buttons, CHANNEL BAND Switch and TUNING Knob, which have been set to VHF channels (2 through 13) at the factory.



To fine tune your VCR, do the following

1. Turn on TV and tune to channel 3 or 4 according VCR/VHF OUT put channel selector.

2. Turn on VCR and set TV/VCR switch to "VCR".

3. Push the up ▶ or down ◀ channel button to select the position which you would like to tune it.

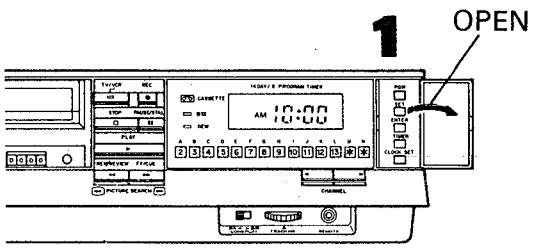
4. Set the STD/CATV switch to STD or CATV. Set the BAND switch to V_L, V_H or U/C (UHF/CAT ') by using adjusting driver.

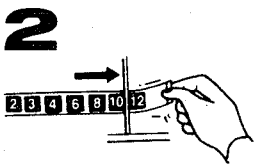
Switch position		STD		CATV	
V_L	CH		2~ 6		2~ 6
V_H	CH	A~I	7~13	A~I	7~13
U/C	CH		14~83	J~W	

5. Turn the tuning knob to the right or left until the picture appears on the screen, and tune in the desired channel by rotating the tuning knob for the best picture and sound.
   Use the tuning indicator as an approximate channel indicator.

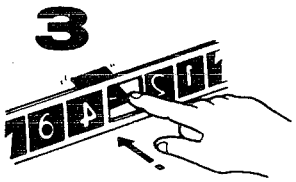
6. Close the preset tuning compartment door.

REARRANGING THE CHANNEL INDICATORS

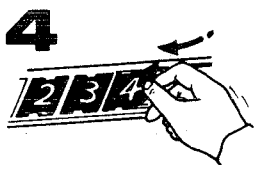




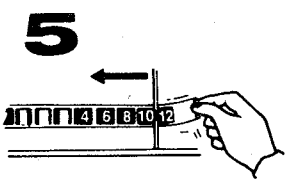
Pull out the channel indicator sheet from channel indicator holder.



Remove the old channel numbers.



Replace the channel number correctly.



Insert the channel indicator sheet into the channel indicator holder.

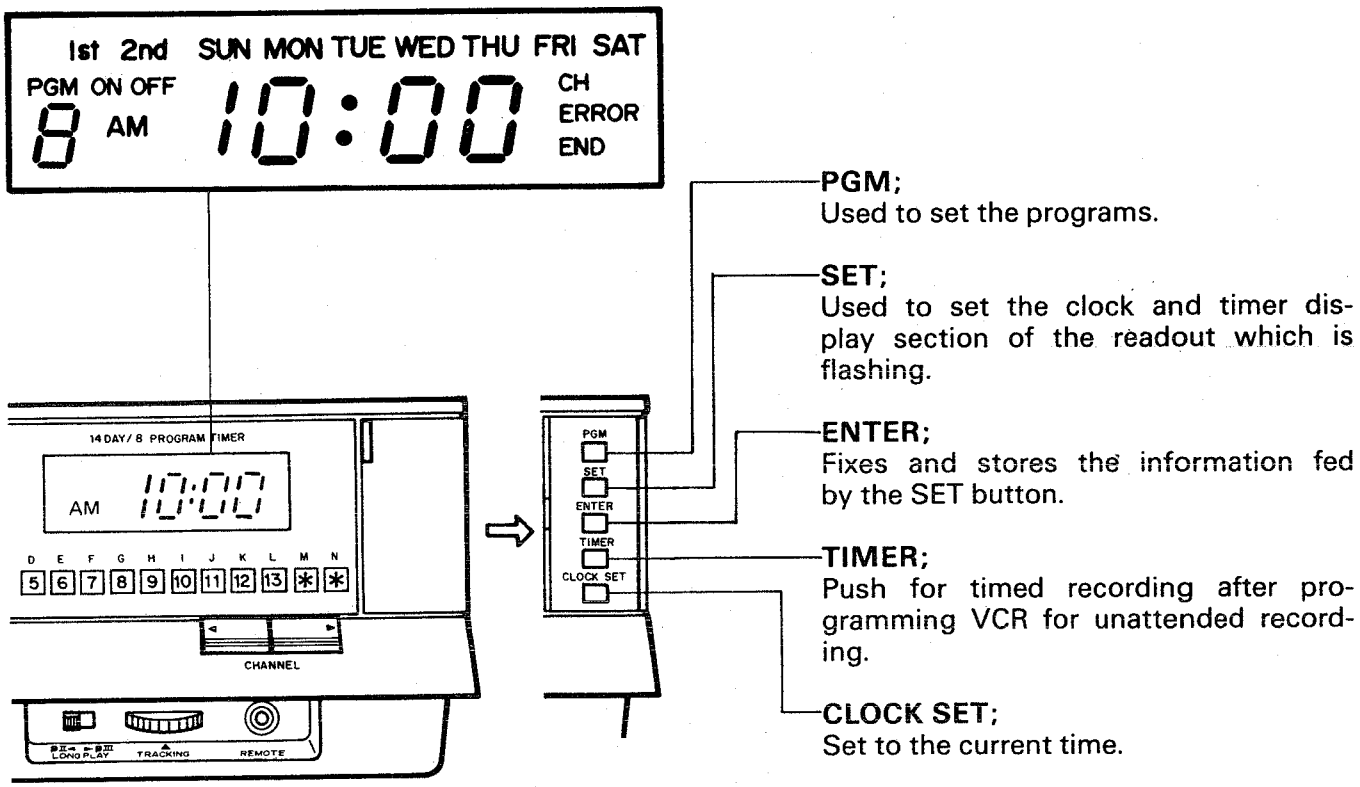
TIMER SECTION

PROGRAMMABLE TIMER

* The clock used is of the 12 hour type.
* Using the timer allows you to preset your recorder as long as 14 days in advance to record up to eight different programs on different channels.
* This timer allows you to preset your recorder at the same time everyday, and to preset your recorder at the same day everyweek.
* If power to the VCR is interrupted, the clock will continue to run and the programming will not be disturbed for about 10 minutes. After 10 minutes of power interruption if the clock will flashing SUN AM 12:00, the clock and programming will have to be reset. (During power interruption, there will be no clock display.)

  (If the colon will flashing, it indicates to have been short power interruption. When push the CLOCK SET button once and again in VCR ON mode, flashing of colon goes out.)

Timer Display



PGM;
Used to set the programs.

SET;
Used to set the clock and timer display section of the readout which is flashing.

ENTER;
Fixes and stores the information fed by the SET button.

TIMER;
Push for timed recording after programming VCR for unattended recording.

CLOCK SET;
Set to the current time.

Programming

* The Power Switch must be ON when programming the Timer.
* After programming is completed, push the TIMER button.
* It is not necessary to push the RECord button as this is automatic in the TIMER mode.
* Confirm the current time before setting the timer.

< Setting the Current Time >

(Example: Monday 9:00 A.M.)

a) Power switch may be ON or OFF.

b) Push the CLOCK SET button.

c) A day of the week will flash.

d) The time will be changed each time the SET button is pushed. (If the button is held down, the Day will change rapidly.)

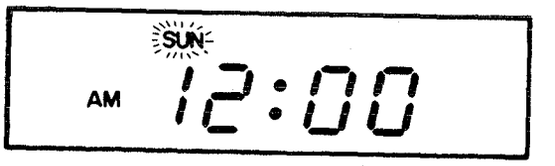
e) When MON (current day) is displayed, release SET button and push ENTER button. The Hour portion will now flash.

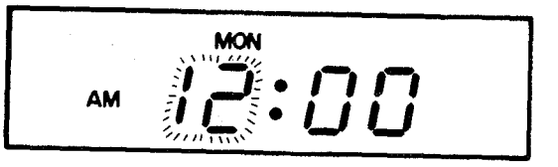
f) Push the SET button until the hour portion reads AM 9 (current hour). Release the SET button and push the ENTER button. The 10 minute portion will now flash.

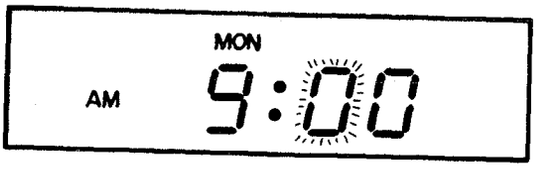
g) Push the SET button until the 10 min. portion reads 0. Then push the ENTER button. The 0 min. portion will now flash.

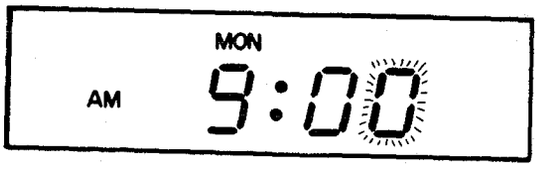
h) Push the SET button until the 0 minutes portion reads 0. Then push the ENTER button. The END light will now be on.

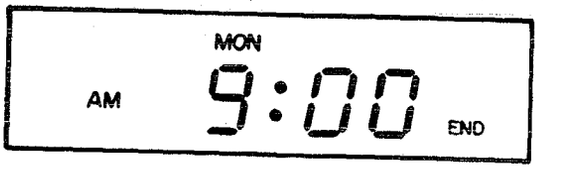
i) Push the CLOCK SET button.
The current time is now set. Always be certain the clock is set to the correct time and day before attempting programming.



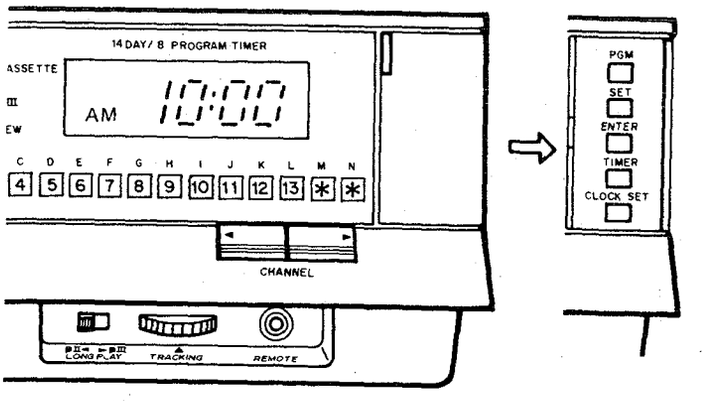








Note; Be careful to set "AM-PM" correctly.

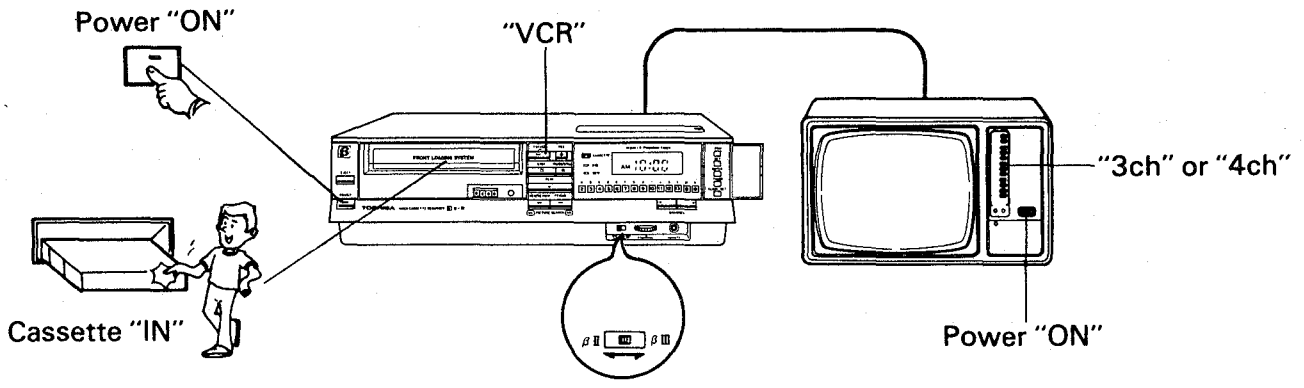


The following example illustrates the possible ways this timer can be programmed.

SETTING THE PROGRAMMABLE TIMER

Example: Program 1. 1st Friday 8:00 AM ~ 8:15 AM channel 6.
Program 2. 2nd Tuesday 9:00 PM ~ 9:30 PM channel 2.
Program 3.
⋮ ⋮
Program 8. 1st/2nd Sunday 7:00 AM ~ 7:30 AM channel 8.
(Today is wednesday)

Prepare for programming.



Procedure
PGM–1

a) Push the PGM button.
PGM – 1 (Program No. 1) is flashing.
– Push ENTER

b) Push SET button until week is 1st.
– Push ENTER
Push SET button until Day is FRI.
– Push ENTER
Push SET button until hour reads AM 8.
– Push ENTER
Push SET button until 10 min. reads 0.
– Push ENTER
Push SET button until min reads 0.
– Push ENTER

c) OFF will now be lit. Set OFF time to AM 8:15 in the same manner as setting the ON time CH will now be flashing.

d) Press SET button (view the channel indicator) until the desired channel (channel 6 in this example) is reached.
Push the ENTER button.
The END light will now be on.

e) Push the ENTER button.
The PGM–1 is now set.

f) Set PGM2 through within PGM8 in the same manner as setting PGM–1.

g) After setting whole programs, push PGM button. (The clock display shows the current time.)

h) Push TIMER button.

i) Set the Power switch of TV "OFF".

Notes;

1. When you want operate VCR after timed programming, set the POWER switch of VCR to ON. After operating, be sure to push the TIMER button.
2. When the "TIMER" button is pressed for unattened recording, the program display will indicate the program which is to be executed earliest in time for about 5 seconds and then automatically switched back the clock display.

ERROR

1. When the time of one program overlaps the time of another program, the ERROR light will be on. If this happens, determine which programs have overlapping times and reprogram one of them.

2. When the ERROR lamp will flashing, confirm the following items.
   * Is the cassette into the cassette compartment?
   * Is the tab of cassette removed?

* When the ERROR lamp will flashing, the VCR cannot be timed recording. Be sure to confirm the ERROR lamp to be gone out.

CONFIRMING THAT PROGRAMS ARE PRESET

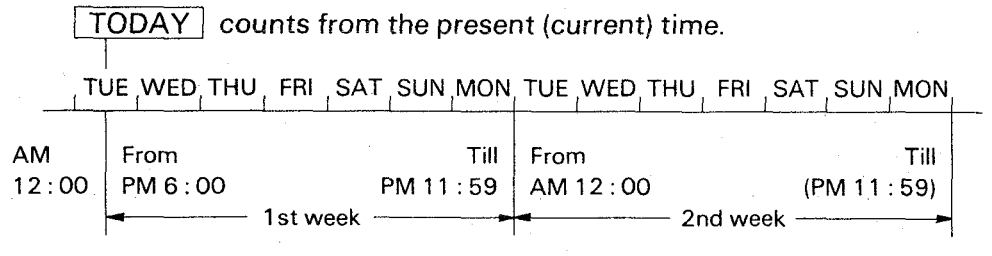
1. Push the POWER switch ON.

2. Push the PGM button to have a timer display. (Program number will be flashing.)

3. Push the SET button to move to next program.
   (The program of the "ON" time will be displayed.)
   Note: The displays of the "ON" and 'OFF" times will alternately appear, if the SET button is held pressing.

4. After confirming the programs, be sure to push the TIMER button.
   Note: The clock and timer display alternately appear if the button is held pressing.

Note: The 14 days' period is divided into the "1st" and "2nd" weeks, and the time span of each week for the timer memory is calculated as illustrated below:


TODAY counts from the present (current) time.
TUE WED THU FRI SAT SUN MON TUE WED THU FRI SAT SUN MON
AM 12 : 00
From PM 6 : 00
Till PM 11 : 59
From AM 12 : 00
Till (PM 11 : 59)
1st week
2nd week

1-1 Major Difference Between V-C300 and V-M32T/C

1. Timer Section
   Timer Setting keys are as follows:

Key Button	V-C300	V-M32T/C
CLK SET	○	○
CLR	×	○
TIM	○	○
END	×	○
ENT	○	○
SET	○	○
PGM SET	○	○

2. Electrical Adjustments are same as V-M32T/C (File No. 030-063)
3. Mechanical OPerations are same as V-9200T/C (File No. 030-042)
   Front Loading Operations are, however, same as V-M32T/C.
4. Mechanical Adjustments are same as V-M32T/C.

SECTION. 2. PERIODIC INSPECTION AND MAINTENANCE

Maintenance Items and Period

The VCR should be maintained for best performance at all times in accordance with the table below.

NOTE:

For cleaning, use isopropyl alcohol.

CAUTION:

Disconnect all power from the VCR before cleaning any parts.

2-1. Cleaning the Video Heads

To clean the video heads, wipe them with a cleaning bar of deer skin moistened in isopropyl alcohol.

CAUTION:

Never leave the video heads revolving during cleaning or htey could be damaged.

The heads and scaner should be cleaned by lightly moving the cleaning bar right and left on the surface as shown in Fig. 2-1.

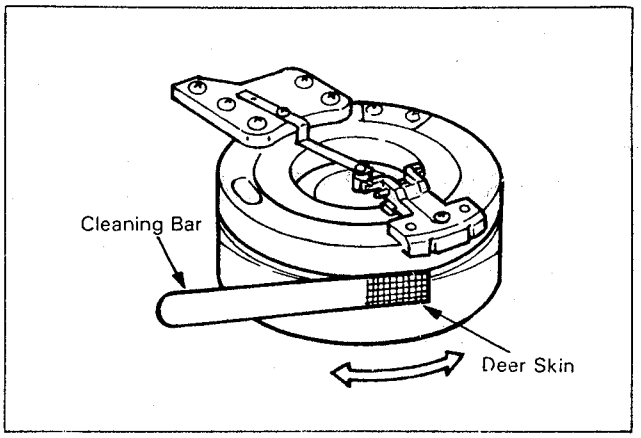


Fig. 2-1 Video Head Cleaning

2-2. Cleaning the Audio and Control Head and Full Width Erase Head

To clean the audio and control heads and full width erase head, move the cleaning rod right and left on the surface as shown in Fig. 2-2.

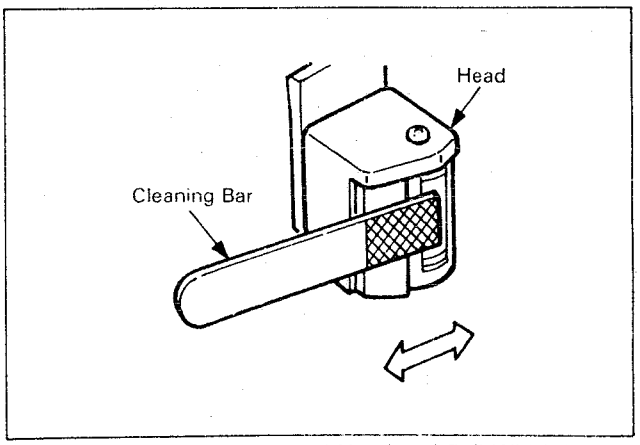


Fig. 2-2 Audio and Control Head and Full Width Erase Head Cleaning

2-3. Cleaning the Capstan Assembly and Capstan Bearing Assembly

To clean these assemblies, first remove the cabinet as directed Section 4-1.

Remove the video • audio circuit board and servo • logic circuit board. Now, clean the assemblies.

NOTE:

Maintenance periods listed in the table may be changed depending on the conditions of customer's operations since they are determined as standard periods as normal operating conditions.

2-4. Cleaning the Belts, Idlers, and Pulleys

To clean these parts, use a cleaning rod having cotton at each end or a cloth moistened a little in isopropyl alcohol. (See Fig. 2-3)

CAUTIONS:

1. Each flat belt should be installed with the white mark facing outside and the arrow indicating the revolutional direction as shown in Fig. 2-4.
2. The square belts should not be twisted. (See Fig. 2-5)

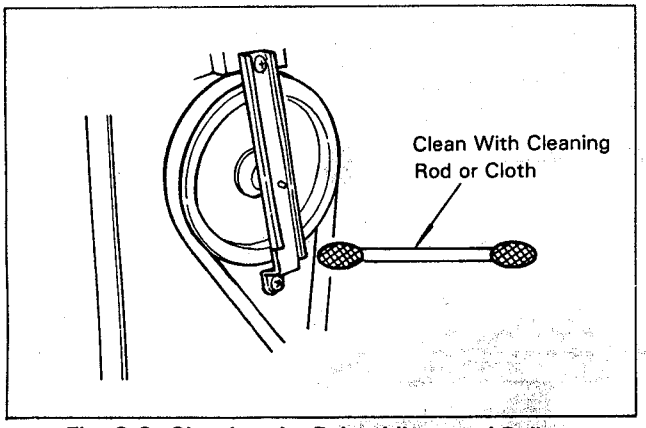


Fig. 2-3 Cleaning the Belts, Idlers, and Pulleys

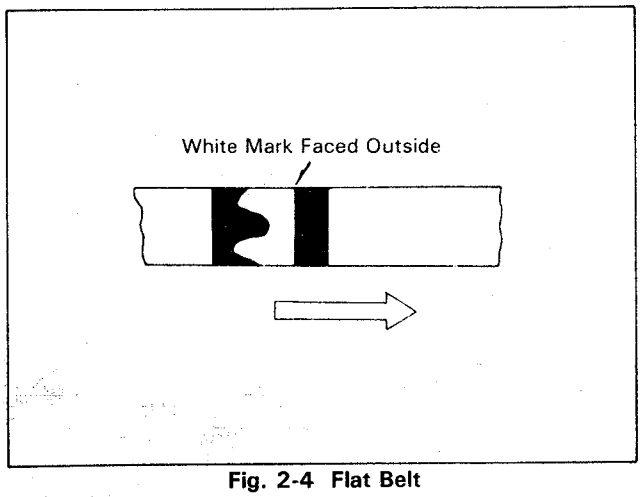


Fig. 2-4 Flat Belt

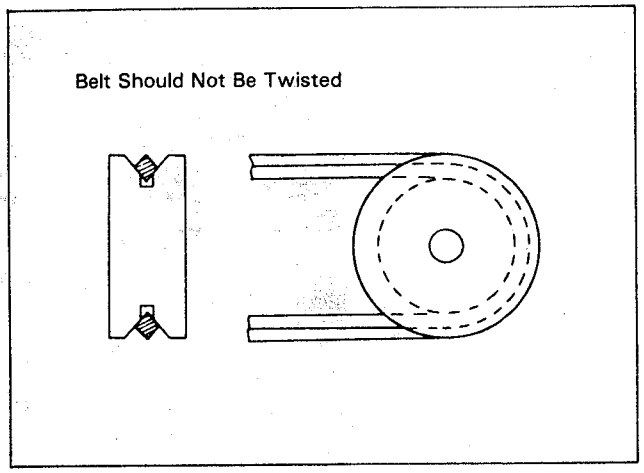
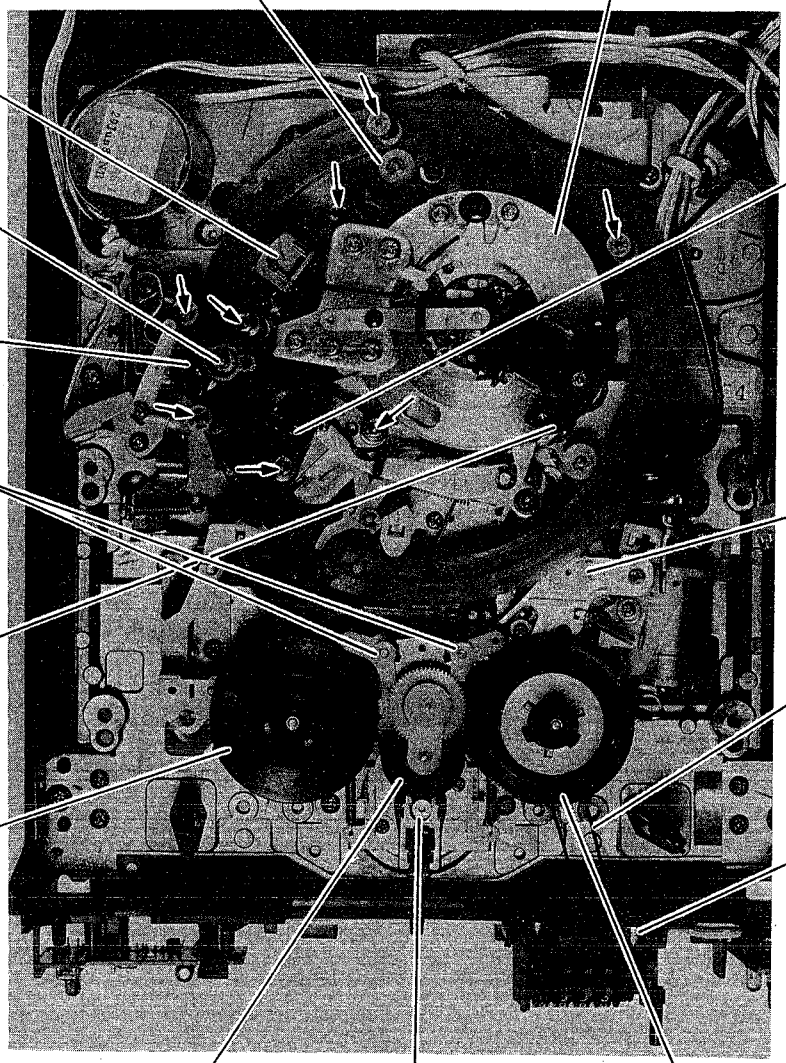


Fig. 2-5 Square Belt

ITEM \ PERIOD (HOURS)	500	1000	1500	2000	2500	3000	3500	4000	5000	40000
Video head disk assembly	△	△○	△	△○	△	△○	△	△○	△○	
Audio and control head assembly	△	△	△	△	△	△	△	△	△	
Capstan assembly		△ ▲		△ ▲		△ ▲		△ ▲	△	
Capstan bearing assembly		△ ▲		△ ▲		△ ▲		△ ▲	△	
Pinch roller		△		△		△○		△		△
Dew sensor element				△				△		
Reel drive assembly										○
Capstan belt				○				○		
Loading belt										○
Counter belt					○				○	
Supply reel table assembly				△ ▲				△ ▲		
Take-up reel table assembly				△ ▲				△ ▲		
Fast-forward idler assembly										○
Band brake assembly				○				○		
Scanner motor									○	
Tape guides	△	△	△	△	△	△	△	△	△	
Capstan motor						○				
Loading drive assembly										○
Reel motor				○				△○		

NOTE;
○ indicates replacement, ▲ lubrication, and △ cleaning.

2-5. CLEANING AND LUBRICATION ON THE UPPER SURFACE OF THE CHASSIS



(▲) Lubrication
Loding Disk
Roller x 3

(▽) Cleaning
Cylinder and
Video Head

(▽) Cleaning
Audio Control
Head

(▽) Cleaning
Capstan

(▽) Cleaning and
Pinch Roller

(▽) Cleaning
Reel Brake

(▽) Cleaning with
Cleaning Rod or
Cloth
Dew Sensor

(▽) Cleaning and
(▲) Lubrication
Supply Reel

(▽) Cleaning
Full-width
Erase Head

(▲G) Lubrication
Loading Gear

(▽) Cleaning
Counter
Square Belt

(▽) Cleaning and
(▲) Lubrication
Counter Pulley

(▽) Cleaning and
(▲) Lubrication
FF Idler

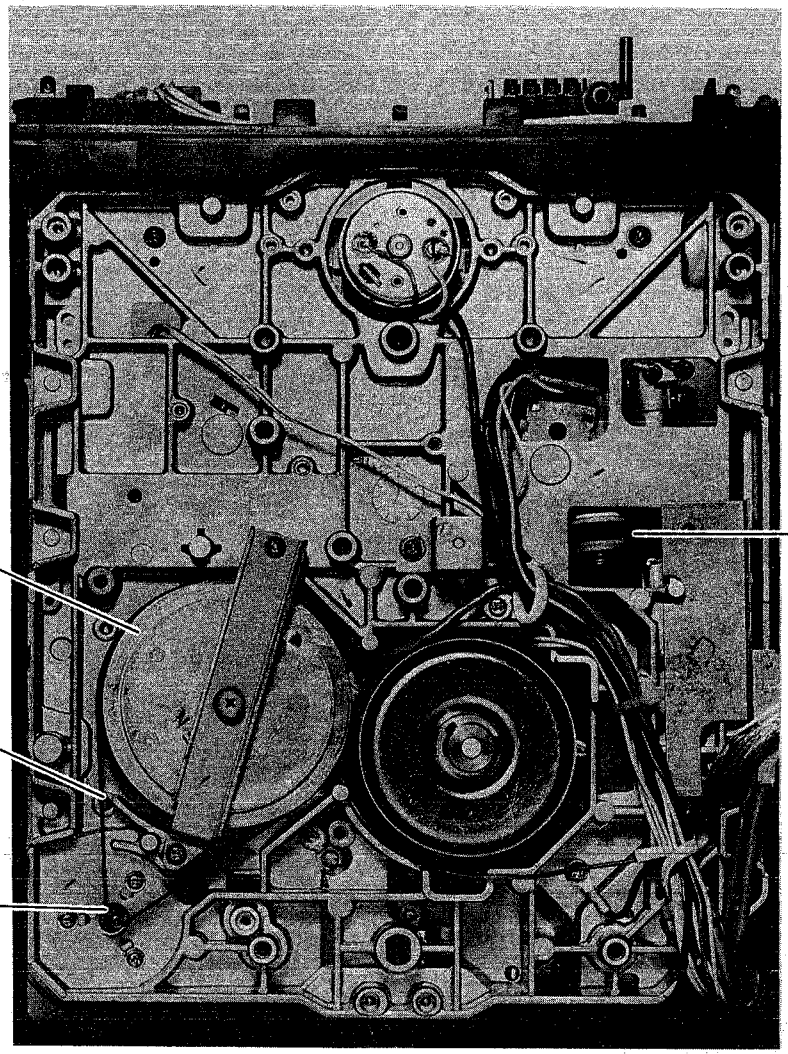
(▽) Cleaning
Reel
Motor Pulley

(▽) Cleaning and
(▲) Lubrication
Take-up Reel

Remarks: ▽: Cleaning
▲: Lubrication
(with a specified lubricant)
▲G: Greasing

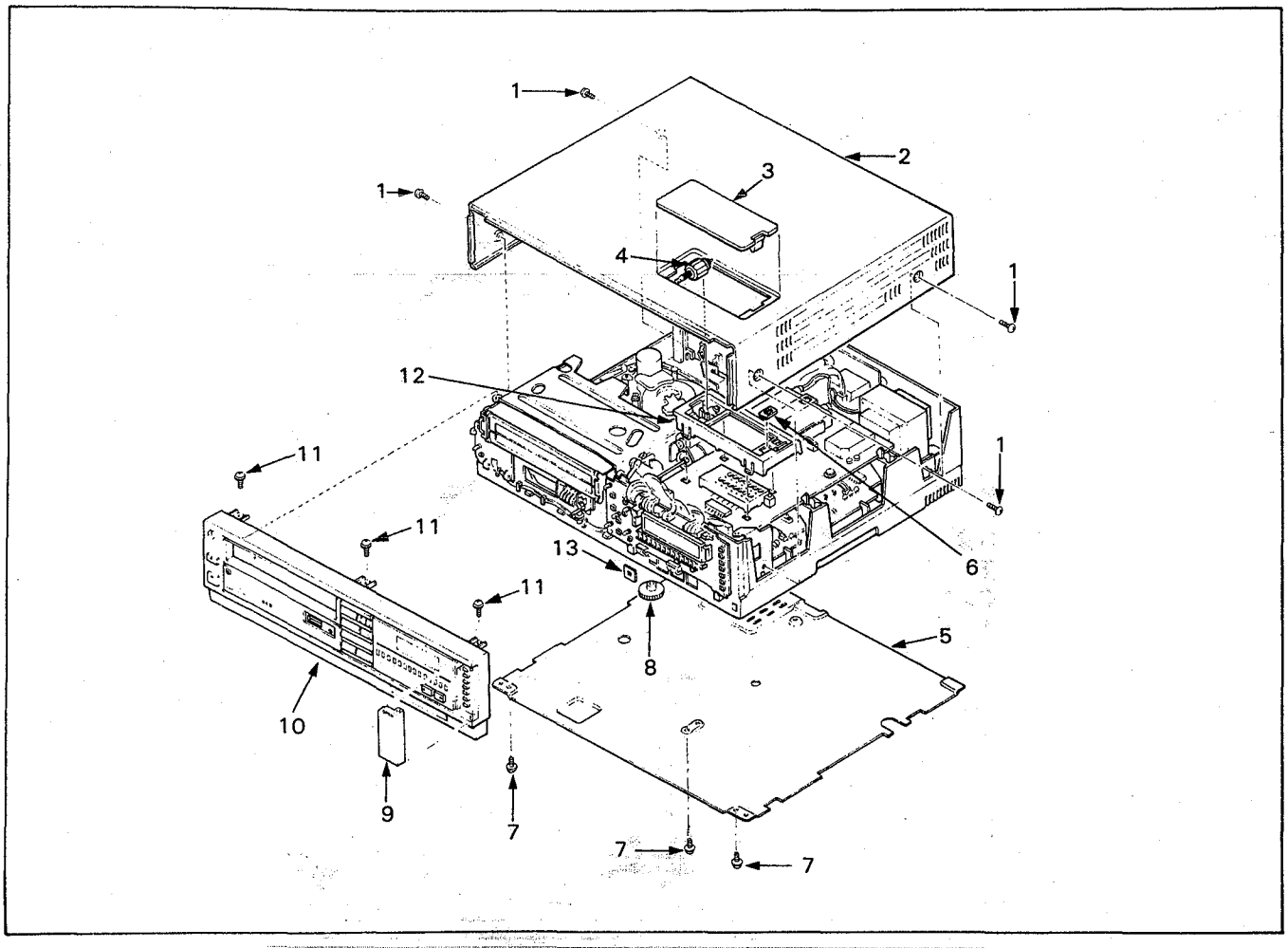
Note: →: Cleaning of tape guide

2-6. CLEANING AND LUBRICATION ON THE LOWER SURFACE OF THE CHASSIS



SECTION 3. EXPLODED VIEWS AND PARTS LIST

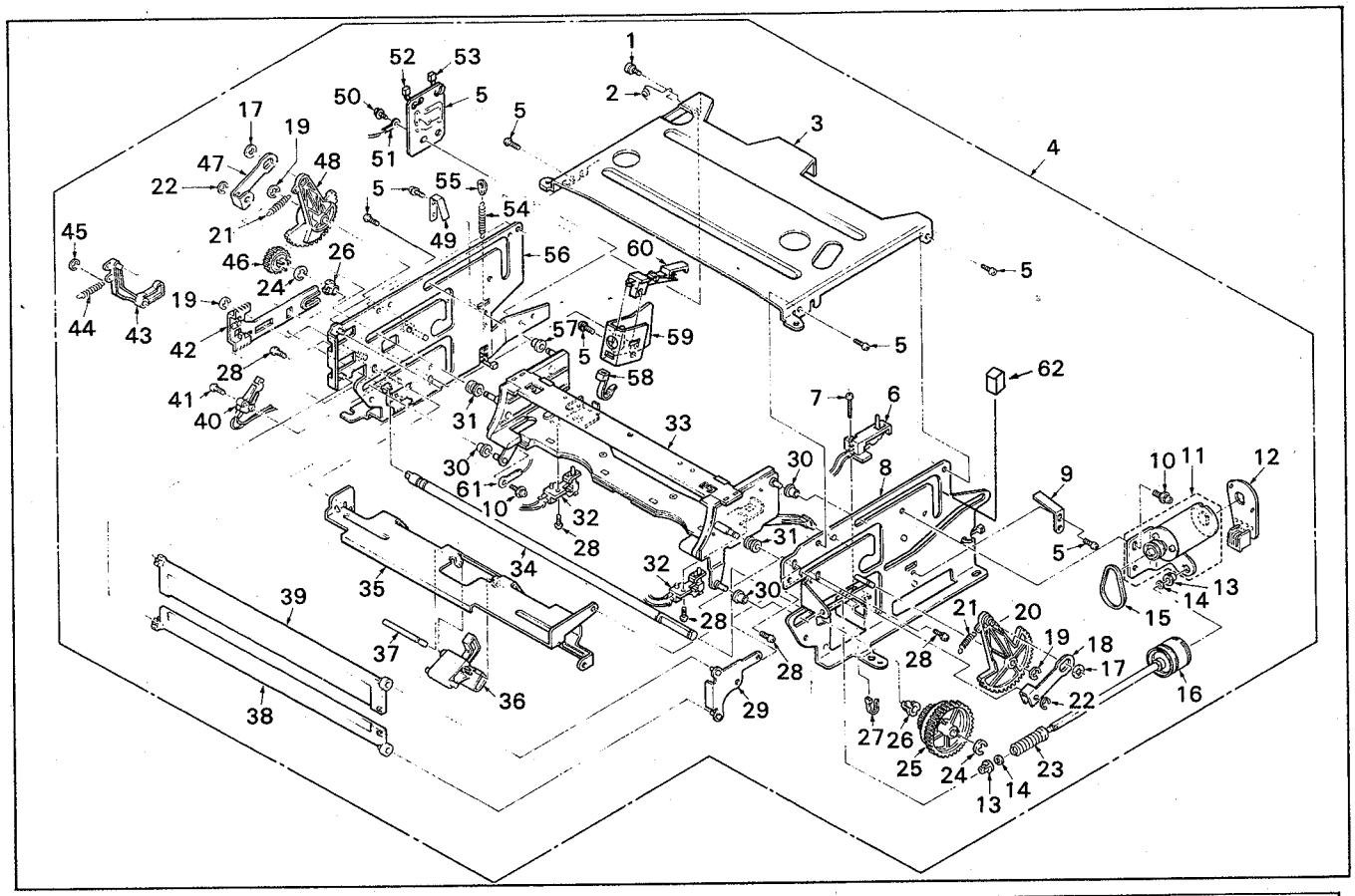
3-1. CABINET ASSEMBLY



Key No.	Location No.	Part No.	Description
1	A102A	23773406	Screw, 4 x 0.7 x 6 mm
2	A102	70814251	Top Cover, V-C300
3	A102B	70863201	Door, Top
4	A104A	70421402	Adjusting Bar, Potentiometer
5	A103	*70815064	Bottom Shield Assy
6	A104B	*70867109	Cover, CATV
7	A103C	*70391081	Screw, 4 x 12 mm
8	R550A	70862046	Knob, Tracking R550A
9	A101B	*70863208	Door, Front
10	A101	70812303	Front Panel
11	A101A	*23718306	Screw, 3 x 6 mm
12	A104	70843032	Cover, Potentiometer
13	S501A	*70867092	Cover, Slide Switch

NOTE: Items marked (*) are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

3-2. FRONT LOADING ASSEMBLY

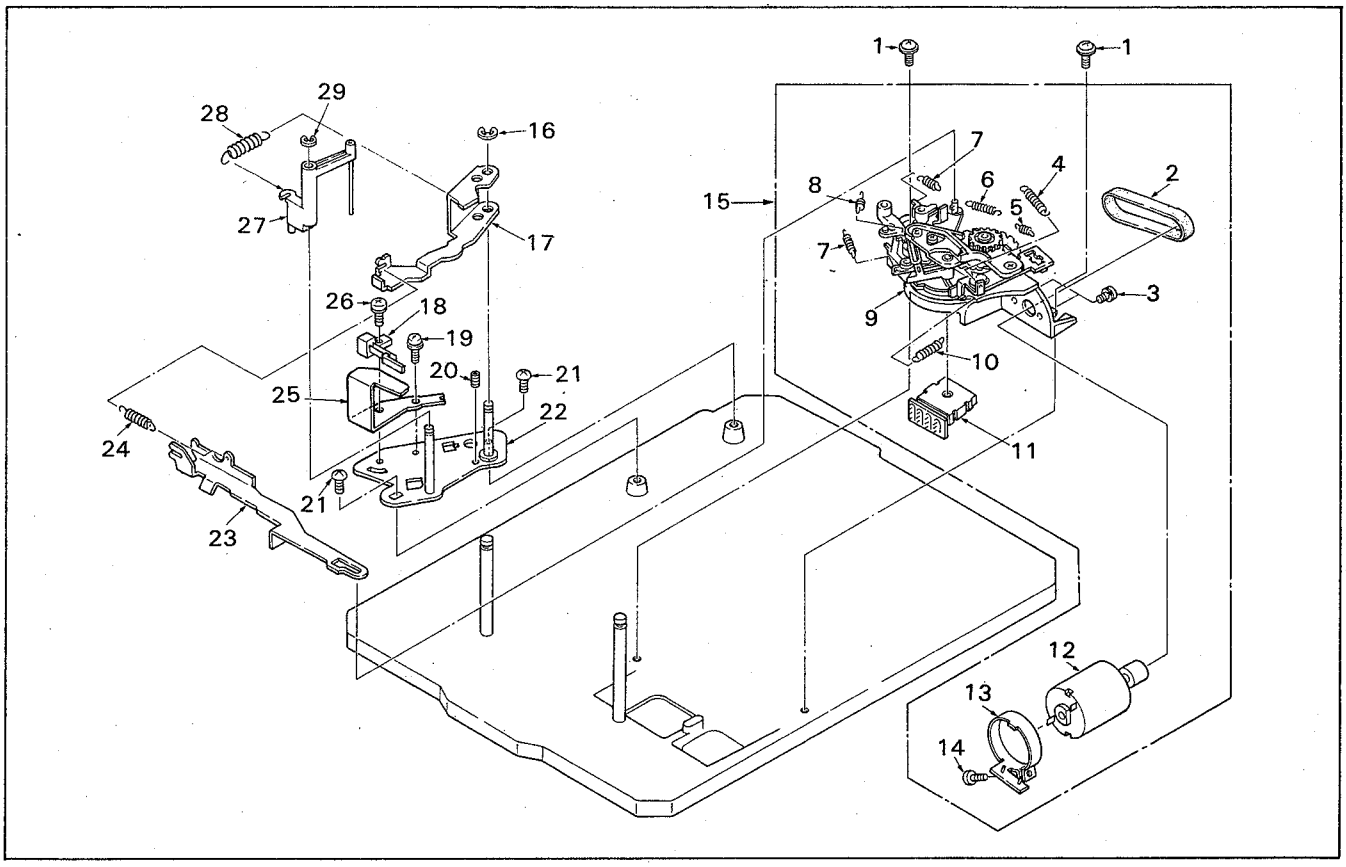


Key No.	Location No.	Part No.	Description
1	K360B	*23721002	Screw, 2.6 x 6 mm
2	K348	*70351502	Spring, Wire Hold
3	K360	*70371136	Top Board
4	K301	70314103	Front Loading Assembly
5	K360A	*23723001	Screw, 2.6 x 5 mm
6	S621	70145111	Switch, Error Erase Prevention
7	S621F	*23723005	Screw, 2.6 x 12 mm
8	K320	*70324195	Bracket, Right
9	K337	*70352060	Spring
10	K325A	*23721305	Screw, 3 x 5 mm
11	K325	70324190	Bracket Assembly, Motor
12	U621	*70192655	Switch Trans Board, Front Loading
13	K336	*70338029	Shaft Holder B
14	K322J	*70347043	Polyslider, 2.6 x 4.7 x 0.5 mm
15	K335	70342121	Belt, Square, Loading
16	K322	*70324216	Worm Shaft Assembly
17	K334	70394060	Washer C STW-3
18	K330	*70373152	Link, Connector, Right
19	K333A	*23002300	E-Ring 3 mm
20	K333	*70333070	Arm, Gear
21	K332	*70351501	Spring, Cassette Lock
22	K330A	70394075	E-Ring
23	K322B	*70333072	Worm Gear
24	K353A	*23002500	E-Ring
25	K353	*70333069	Worm Wheel
26	K350	*70338030	Shaft Holder A
27	S621C	*70845020	Lead Holder
28	K354A	*23723264	Screw, 2.6 x 4 mm
29	K323	*70324192	Bracket Assembly
30	K358	*70348068	Guide Roller B
31	K357	*70348067	Guide Roller A
32	S632	70145193	Switch, Cassette Detect

Key No.	Location No.	Part No.	Description
33	K303A	*70371135	Bracket, Cassette Holder
34	K352	*70378050	Shaft Gear
35	K354	*70371129	Bracket, Cassette Guide
36	K355	*70363160	Lever
37	K356	*70378064	Shaft
38	K371	70863141	Door, Lower
39	K370	70863206	Door, Upper
40	S631	70145195	Switch, Slot Out
41	S631E	*23723210	Screw, 2 x 10 mm
42	K342	*70366003	Slider, Door
43	K343	*70363159	Lover, Door
44	K345	*70351503	Spring, Door Chose
45	K343A	*23002200	E-Ring, 2 mm
46	K351	*70333068	Gear, Drive L
47	K331	*70373151	Link, Connector, Left
48	K340	*70333071	Cam Gear
49	K338	70352065	Spring
50	U631D	*23721306	Screw, 3 x 6 mm
51	K372	23094301	Lag Terminal
52	U631B	*70845020	Lead Holder
53	U631	*70192568	Switch Trans Board Front Loading
54	K347	*70351499	Spring, Wire Guide
55	K346	*70368007	Guide Plate
56	K321	*70324198	Blacket Left
57	K359	*70348069	Guide Roller C
58	S634C	*70845020	Lead Holder
59	K349	*70371166	Bracket, Cassette Down Switch
60	S634	70145168	Switch, Leaf
61	W134	*70169156	Wire
62	K365	*70860017	Cushion, FL motor

NOTE: Items marked (*) are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

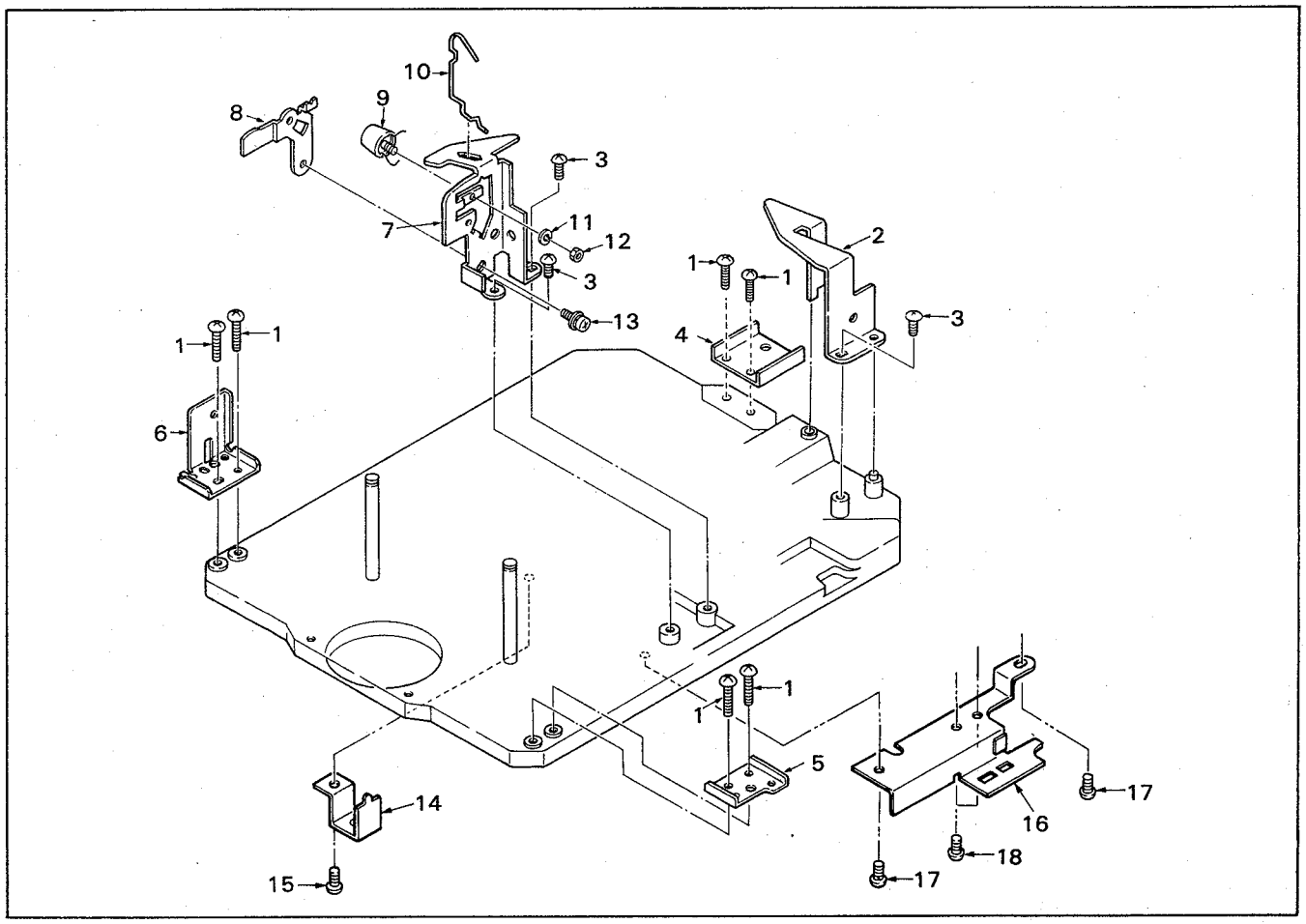
3-3. LOADING CAM UNIT COMPARTMENT ASSEMBLY



Key No.	Location No.	Part No.	Description
1	B501A	* 23721308	Screw, 3 x 8 mm
2	B508	70342092	Bolt, Loading Cam
3	B504	* 23721002	Screw, 2.6 x 6 mm
4	B529	70351405	Spring, Lock Arm
5	B510	* 70351398	Spring, Ratchet
6	B519	70351402	Spring, Cam Arm
7	B527	70351403	Spring, Lock Arm A
8	B523	70351404	Spring, Lock Arm B
9	B502	*70322157	LC Motor Bracket Assembly
10	B533	70351408	Spring Reverse Prevention
11	B509	70145199	Cam Switch Assembly
12	B503	70322225	Motor Assembly, LC
13	B503A	* 70322166	Shield Assembly
14	B503C	* 23712007	Screw, 2.6 x 6 mm
15	B501	70312076	LC. Drive Assembly
16	B122A	* 23002300	E-Ring 3 mm
17	B122	* 70373146	Pinch Lock Lever
18	S656	70145168	Switch, Leaf
19	B126A	* 23721305	Screw, 3 x 5 mm
20	B125	* 23030107	Screw, 3 x 5 mm Set
21	B120A	* 70391049	Screw, 3 x 8 mm
22	B121	* 70321512	Bracket Assembly, Pinch Lock
23	B151	* 70376005	Cam, Link
24	B152	* 70351465	Spring, Pinch Lock
25	B126	* 70371151	Bracket, Slack Switch
26	S656B	* 23723002	Screw, 2.6 x 6 mm
27	B123	70321513	Lever Assembly, Slack Switch
28	B124	70351483	Spring, Slack Lever
29	B123C	70394075	E-Ring 2.3 mm

NOTE: Items marked (*) are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

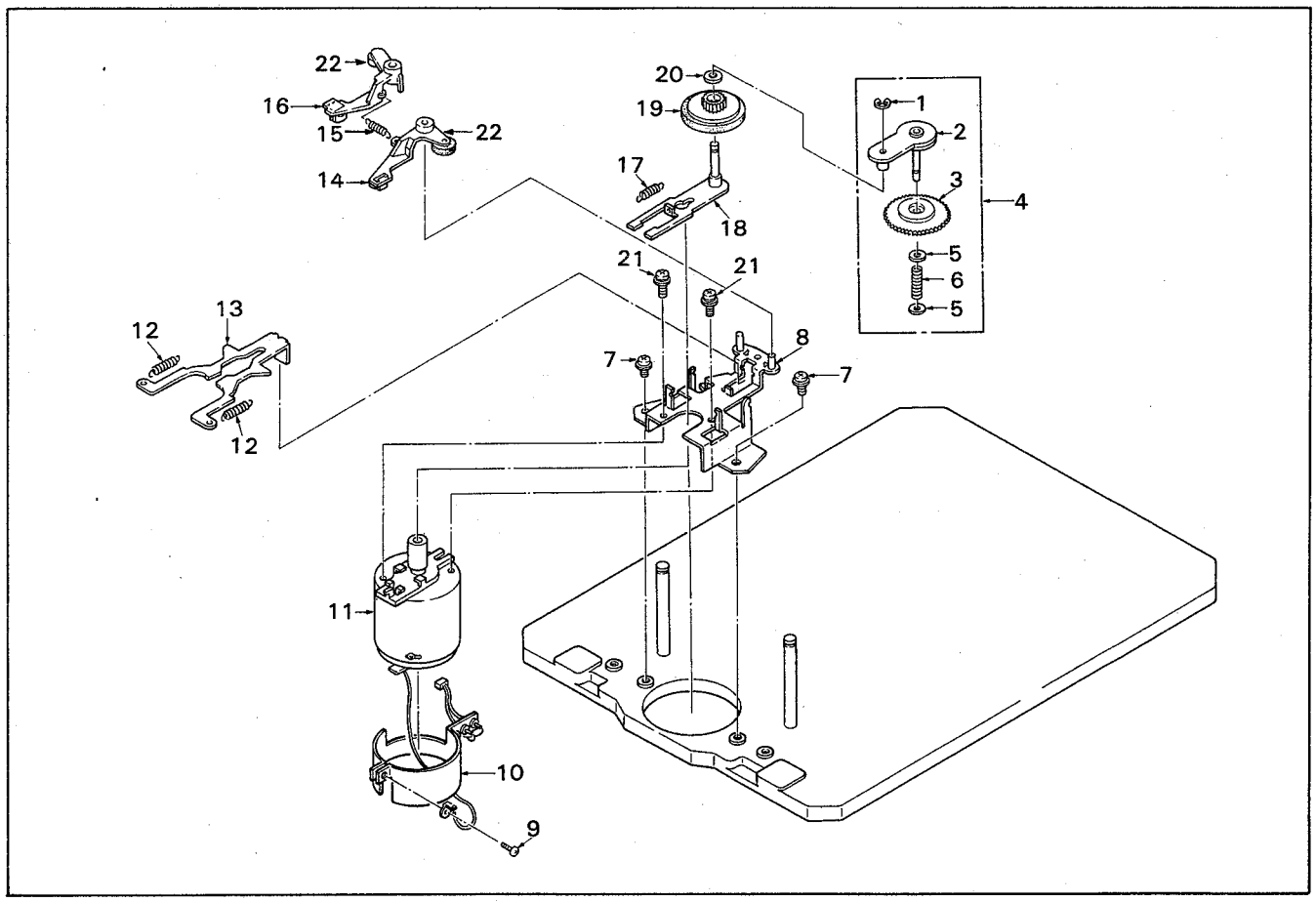
3-4. MAIN CHASSIS ASSEMBLY (RIGHT SIDE)



Key No.	Location No.	Part No.	Description
1	B605A	*70391050	Screw, 3 x 10 mm
2	B181	*70371088	Pinch Bracket
3	B181A	*70391049	Screw, 3 x 8 mm
4	B605	*70842180	Bracket, Back
5	B603	*70842181	Bracket, Right
6	B607	*70842179	Bracket, Left
7	K251	*70371125	Opener Assembly, Cassette Compartment
8	K253	*70373144	Lever, Lever Adjust
9	L661	70212003	Coil, Sensing, 0.18 MHz
10	K257	*70350029	Earth Wire
11	L661A	23056200	Washer, 2 mm
12	L661B	23742020	Nut, 2 mm
13	K254-	*23721306	Screw, 3 x 6 mm
14	B613	*70842221	Bracket, Earth
15	B613A	*70391050	Screw, 3 x 10 mm
16	W201A	*70842220	Shield Plate
17	W201B	*70391047	Screw, 3 x 0.5 x 5 mm
18	W201C	23035308	Screw, 3 x 8 mm

NOTE: Items marked (*) are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

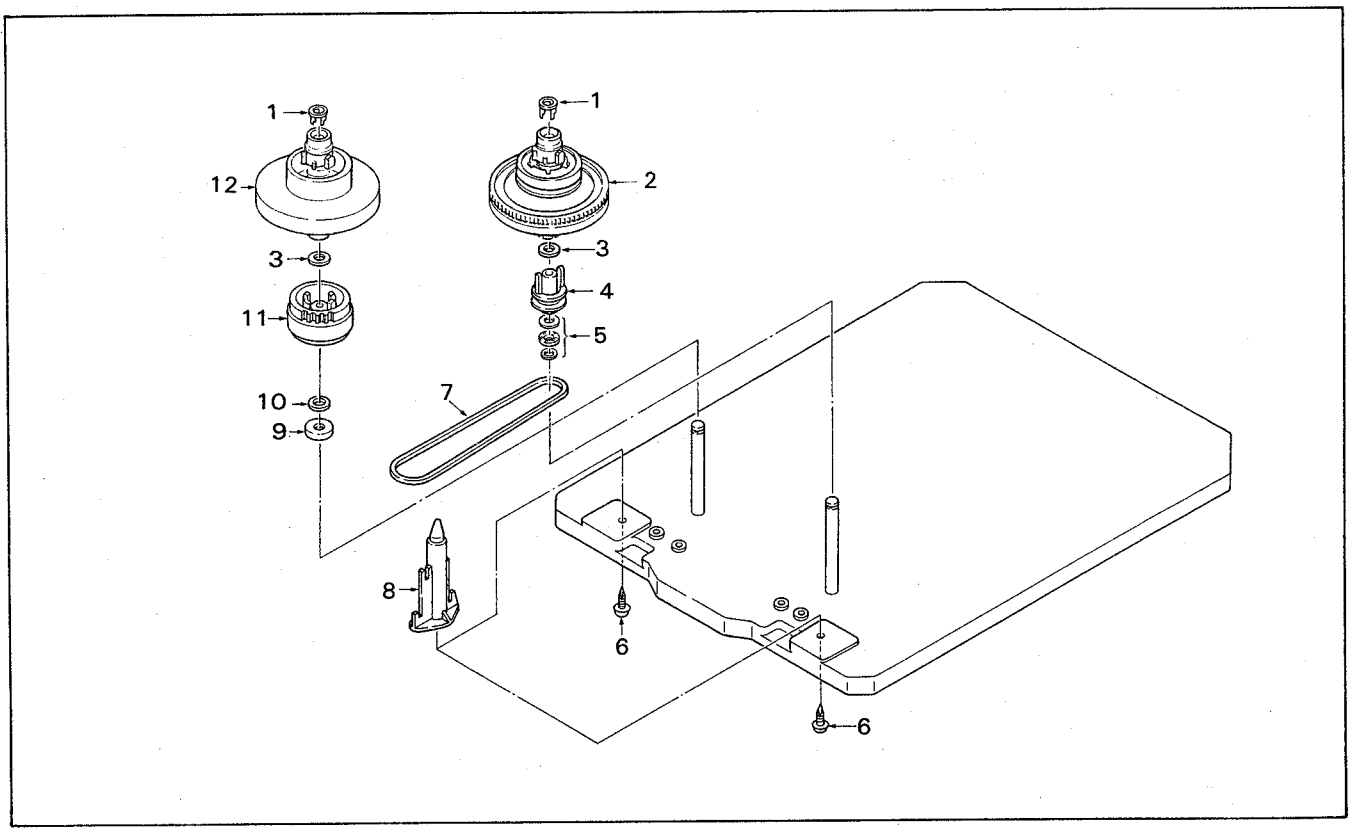
3-5. REEL MOTOR ASSEMBLY



Key No.	Location No.	Part No.	Description
1	K107	23002150	E-Ring 1.5 mm
2	K106K	* 70326428	Idle Holder B Assembly
3	K106P	* 70333044	Idle Gear
4	K106H	70326467	Clutch Assembly, Idler
5	K106R	70396003	Polyslider, 2.1 x 4.0 x 0.25 mm
6	K106Q	70351457	Spring, Clutch Torque
7	K101A	* 70391049	Screw, 3 x 8 mm
8	K102	* 70326444	Chassis Assembly, Reel Drive
9	K111C	* 23712007	Screw, 2.6 x 6 mm, Tapping
10	K111	* 70326442	Shield Assembly, Reel Motor
11	K110	70326451	Motor Assembly, Reel Drive
12	K109	* 70351476	Spring, Slider
13	K103	* 70376001	Slider
14	K105	70326432	Brake Assembly, Take Up
15	K105E	* 70351460	Spring, Brake
16	K104	70326431	Brake Assembly, Supply
17	K108	70351458	Spring, Idler
18	K106A	* 70326427	Idle Holder Assembly
19	K106D	70326449	Gear Assembly, Idler Wheel
20	K106G	* 70396003	Washe, Thrust
21	K110E	* 23723264	Screw, 2.6 x 4 mm
22	K104B	70353101	Tire, Pause Lever

NOTE: Items marked (*) are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

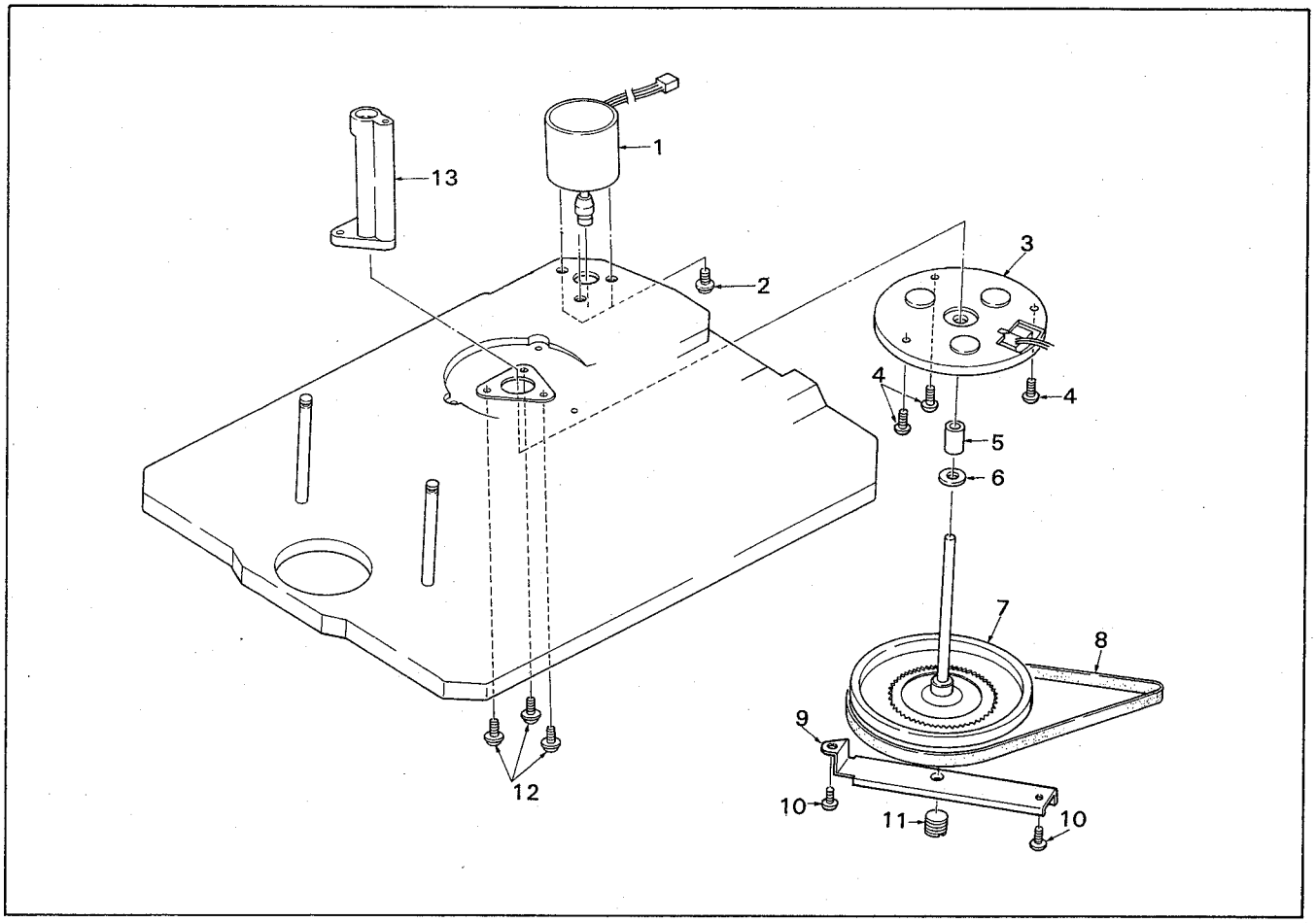
3-6. REEL CHASSIS ASSEMBLY



Key No.	Location No.	Part No.	Description
1	K173	70368001	Stopper, Reel Table
2	K171	70327058	Reel Table Assembly, Take-up
3	K154 K175	70394048	Washer, 4 x 9 x 0.2 mm
4	K172	*70341322	Pulley, Reel Table
5	K170	70348028	Bearing, Thrust
6	K267	*23037310	Screw, 3 x 10 mm
7	K268	70342099	Belt, Counter
8	K266	*70361031	Guide Post, Cassette
9	K150	70394081	Spacer, Reel Table
10	K153	*70347034	Polyslider, 4.1 x 6.5 x 0.5 mm
11	K157	*70331079	Brake, Wheel
12	K151	70331094	Reel Table Assembly, Supply

NOTE: Items marked (*) are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

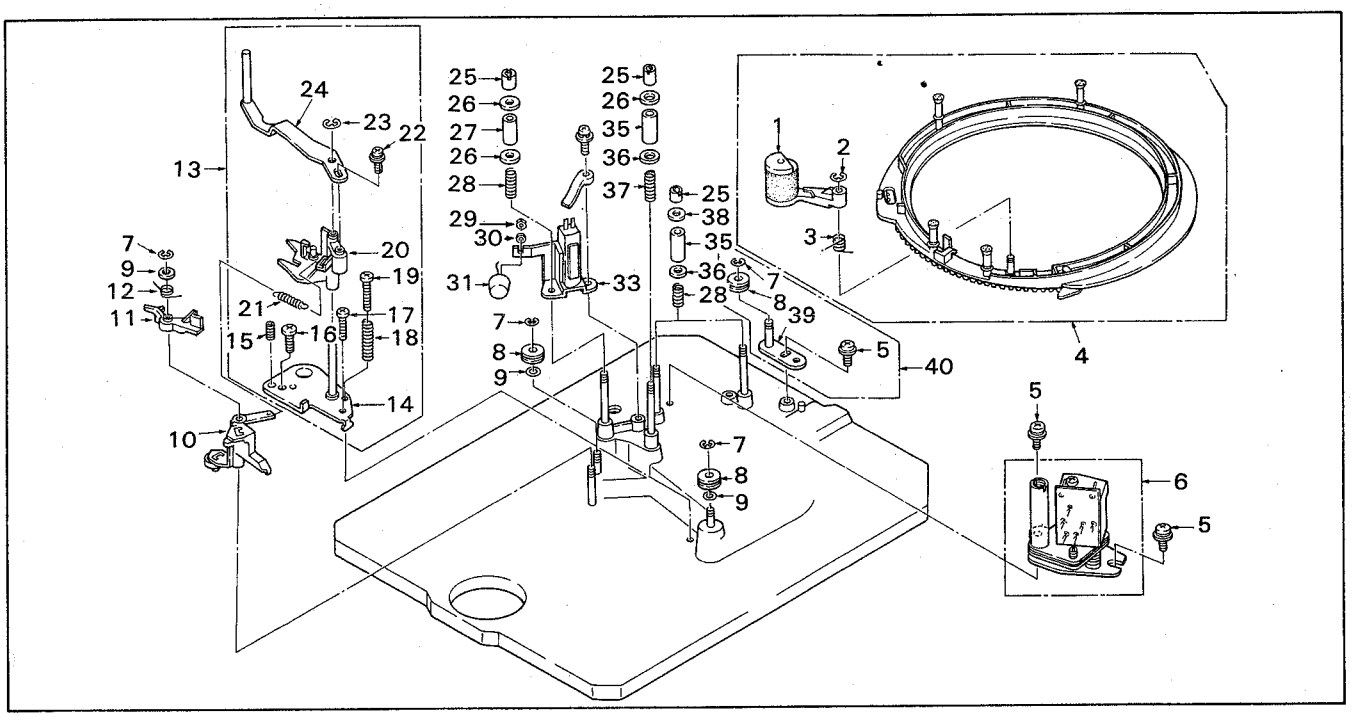
3-7. CAPSTAN DRIVE ASSEMBLY



Key No.	Location No.	Part No.	Description
1	B309	70125107	Motor Assembly, DC, Capstan
2	B309A	*70391105	Screw, 2.6 x 4.6 mm
3	L551	70321672	Coil Assembly
4	B301A	*23712306	Screw, 3 x 0.5 x 6 mm
5	B304D	70368004	Spacer, Capstan
6	B304E	*70394018	Slider polyethylene, 3 x 7 x 0.25 mm
7	B304	*70335030	Flywheel Assembly
8	B307	70342082	Belt, Flat, Capstan
9	B302	*70328290	Bracket Assembly, Thrust Bearing
10	B302A	*70391049	Screw, 3 x 8 mm
11	B302B	*70328285	Bearing Thrust
12	G270C	*70391025	Screw, 3 x 0.5 x 6 mm
13	G270	*70321407	Capstan Sleeve Assembly

NOTE: Items marked (*) are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

3-8. MAIN BASE ASSEMBLY

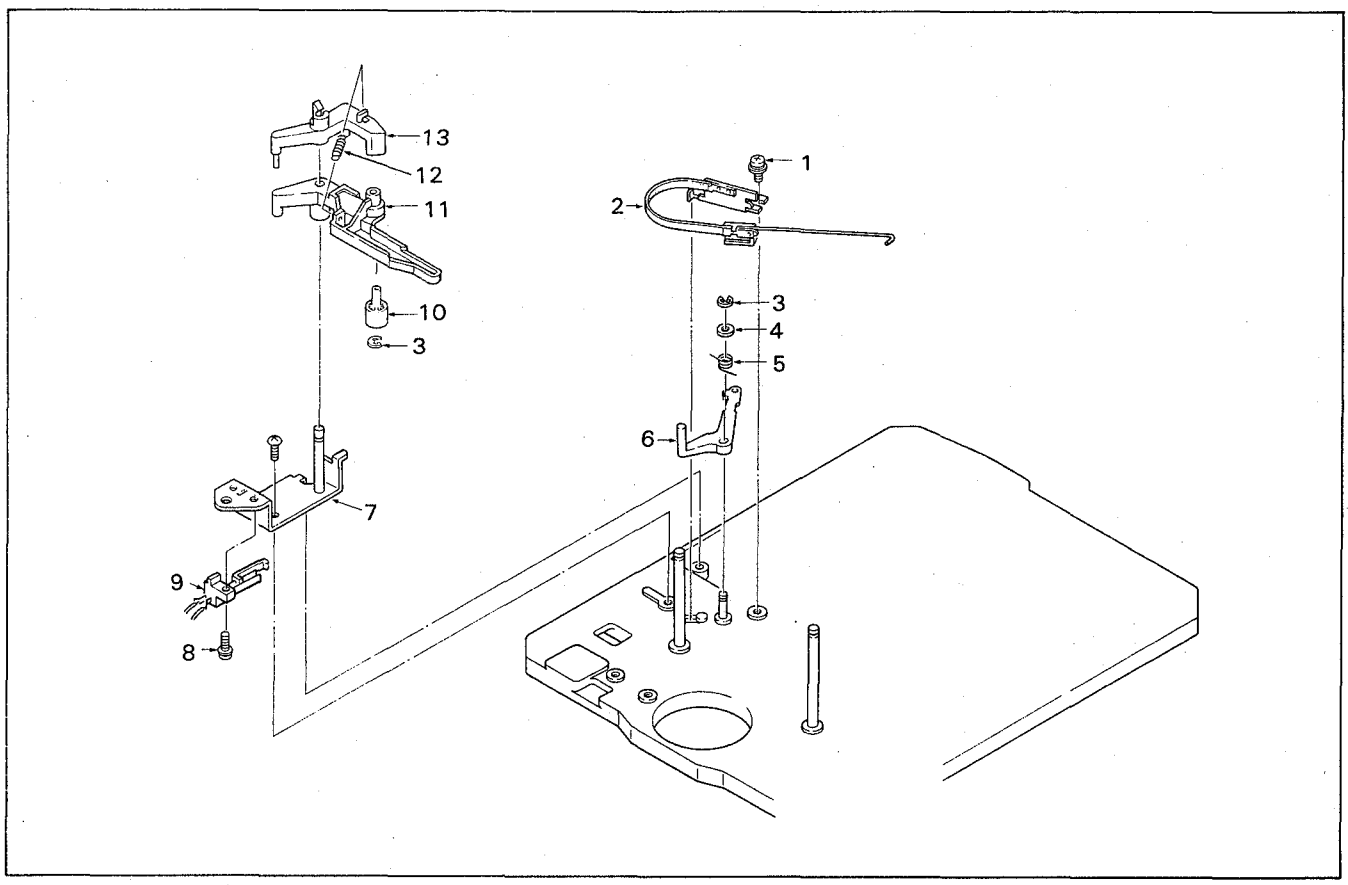


Key No.	Location No.	Part No.	Description
1	B404	*70332025	Level Assembly, Pinch Roller
2	B408	23002200	E-Ring, 2 mm
3	B403	70351263	Spring, Pinch Roller
4	B401	70312083	Loading Disk Assembly
5	G202A	*23721308	Screw, 3 x 8 mm
6	G202	70321557	Guide Assembly, Exit
7	G275E	70394075	E-Ring, 2.3 mm
8	G276	*70348063	Roller, Disk Guide
9	B108A	*70327010	Polyslider, 3.1 x 5.4 x 0.5 mm
10	B105	70321449	Tension Sub Arm Assembly
11	B107	*70361015	Lever, Arm Shift
12	B108	*70351467	Spring, Arm Shift Lever
13	B101	*70321446	Tension Servo Assembly
14	B104	*70321448	Tension Bracket Assembly
15	B104C	*23030083	Screw, 3 x 6 mm
16	B101E	*23712305	Screw, 3 x 0.5 x 5 mm
17	B101A	*23712310	Screw, 3 x 0.5 x 10 mm
18	B101B	*70351472	Spring, Adjust
19	B101C	*23712320	Screw, 3 x 0.5 x 20 mm
20	B103	*70363139	Tennsion Lever
21	B106	70351316	Spring, Tension

Key No.	Location No.	Part No.	Description
22	B102C	*23037310	Screw, 3 x 10 mm, Tapping
23	B103A	*23002300	E-Ring, 3 mm
24	B102	70321447	Tension Arm Assembly
25	G259	*70393009	Nut
26	G256	*70371066	Flange, First Guide
27	G251	*70371064	Guide, Pole, First
28	G260	*70351160	Spring, Tape Exit Guide
29	L662A	*23742020	Nut, 2 mm
30	L662B	*23056200	Washer, 2 mm
31	L662	70212003	Coil, Sensing, 0.18 mm
32	H032B	*70845034	Lead Holder
33	H032	70183012	Head Assembly, Full Erase
34	H032A	*70391050	Screw, 3 x 12 mm
35	G261	*70371065	Guide Pole, Entrance
36	G263	*70394089	Flange, Exit Guide, Lower
37	G253	*70351478	Spring, Second Guide
38	G262	*70371067	Flange, Exit Guide
39	G275A	*70321461	Bracket, Roller Bracket
40	G275	*70328281	Roller Assembly, Disk Guide

NOTE: Items marked (*) are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

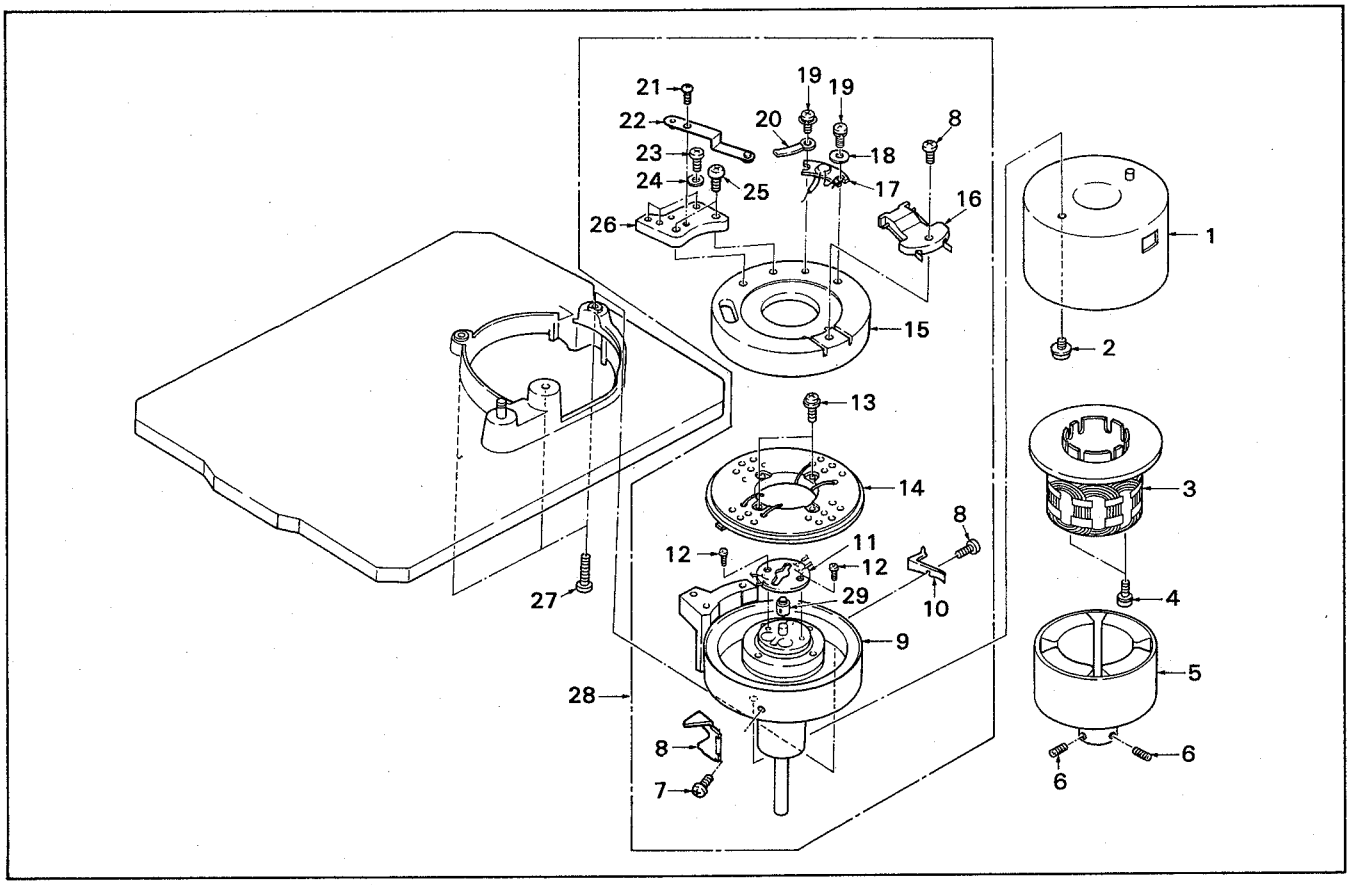
3-9. MAIN CHASSIS ASSEMBLY (LEFT SIDE)



Key No.	Location No.	Part No.	Description
1	B110J	*23721308	Screw, 3 x 8 mm
2	B110	70321514	Band Brake Assembly
3	K264	70394075	E-Ring, 2.3 mm
4	K263	*23058300	Washer
5	K262	70351415	Spring, Soft Brake
6	K261	70363187	Lever, Soft Brake
7	K202	*70326445	Detect Bracket Assembly
8	S654A	*23723002	Screw, 2.6 x 6 mm
9	S654	70145168	Switch, Leaf
10	K204	*70348073	Roller Clutch Assembly
11	K203	70326456	Detect Arm Assembly
12	K208	*70351410	Spring, Cassette Detector
13	K207	*70363151	Lever, Unloading End Detector

NOTE: Items marked (*) are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

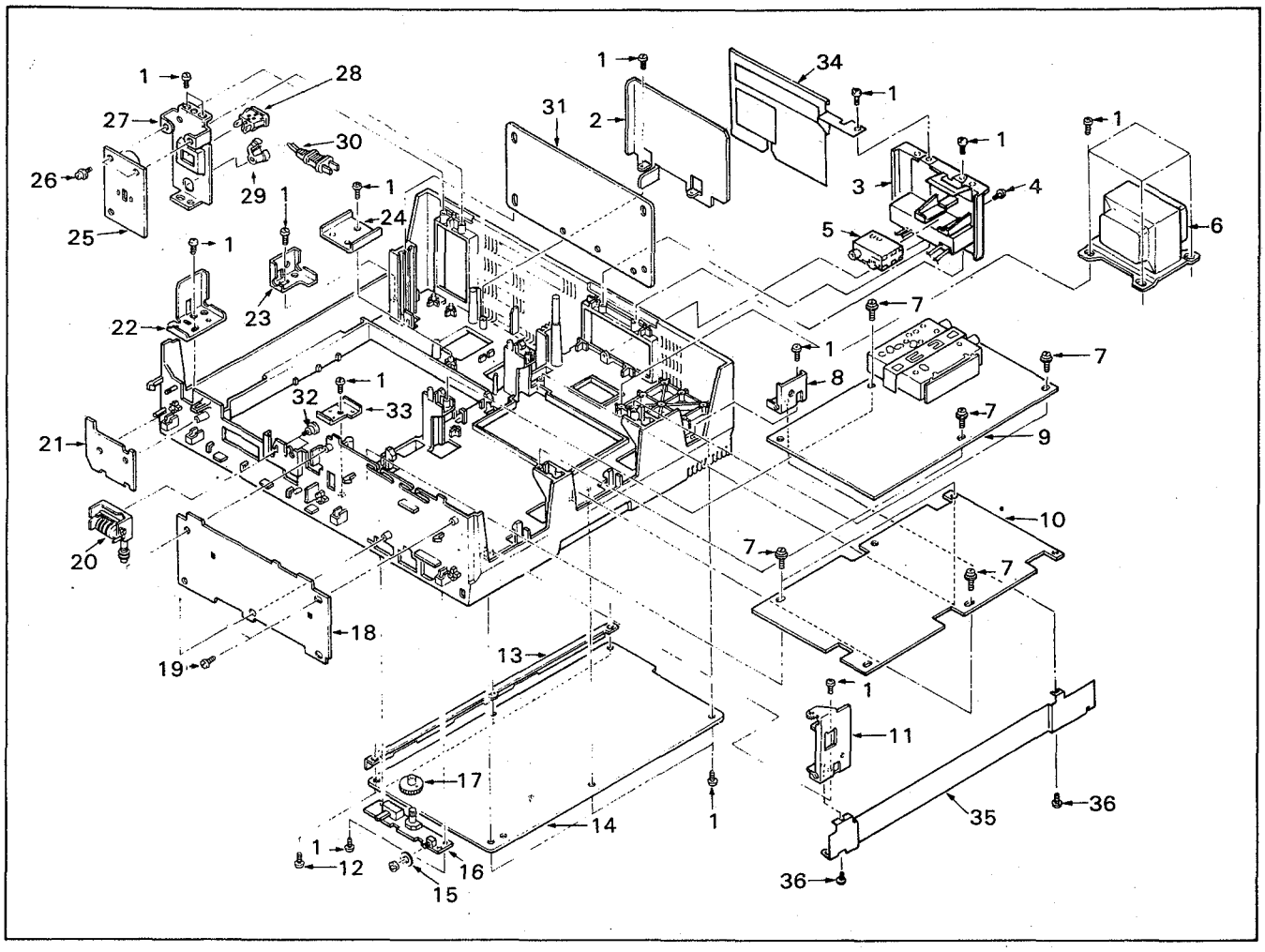
3-10. CYLINDER ASSEMBLY



Key No.	Location No.	Part No.	Description
1	G153	*70851185	Shield, Case Assembly
2	G153A	*23723306	Screw, 3 x 6 mm
3	G152	70125104	Starter
4	G152A	*23723205	Screw, 2 x 5 mm
5	G151	70125103	Rotor Assembly
6	G151A	*23030206	Screw, 4 x 6 mm
7	G137C	*23712306	Screw, 3 x 0.5 x 6 mm
8	G137	*70371138	Tape Holder B
9	G101	70321544	Lower Cylinder
10	G136	*70321235	Tape Holder A
11	G110	70193220	PC Board Assembly, Relay
12	G110A	*23711001	Screw, 2.6 x 5 mm
13	G120A	70391046	Screw, 3 x 8 mm, W/Washer
14	G120	70321542	Video Head Assembly
15	G131	70321492	Upper Cylinder
16	G132	70321232	Tape Holder Assembly
17	RL92	70213074	Dew Heater
18	RL92E	*23058300	Washer
19	G132A	*23712308	Screw, 3 x 8 mm
20	RL92C	*70845034	Lead Holder
21	G133H	*23711001	Screw, 2.6 x 4 mm
22	G133D	*70321596	Spring, Brush
23	G133B	*23712310	Screw, 3 x 0.5 x 10 mm
24	G133C	*23081300	Washer, 3 mm
25	G133A	*23712408	Screw, 4 x 8 mm
26	G133	*70321350	Bracket
27	G001A	*23723310	Screw, 3 x 10 mm
28	G011	70311144	Cylinder Assembly
29	G105E	*70321601	Cap Assembly

NOTE: Items marked (*) are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

3-11. CHASSIS ASSEMBLY

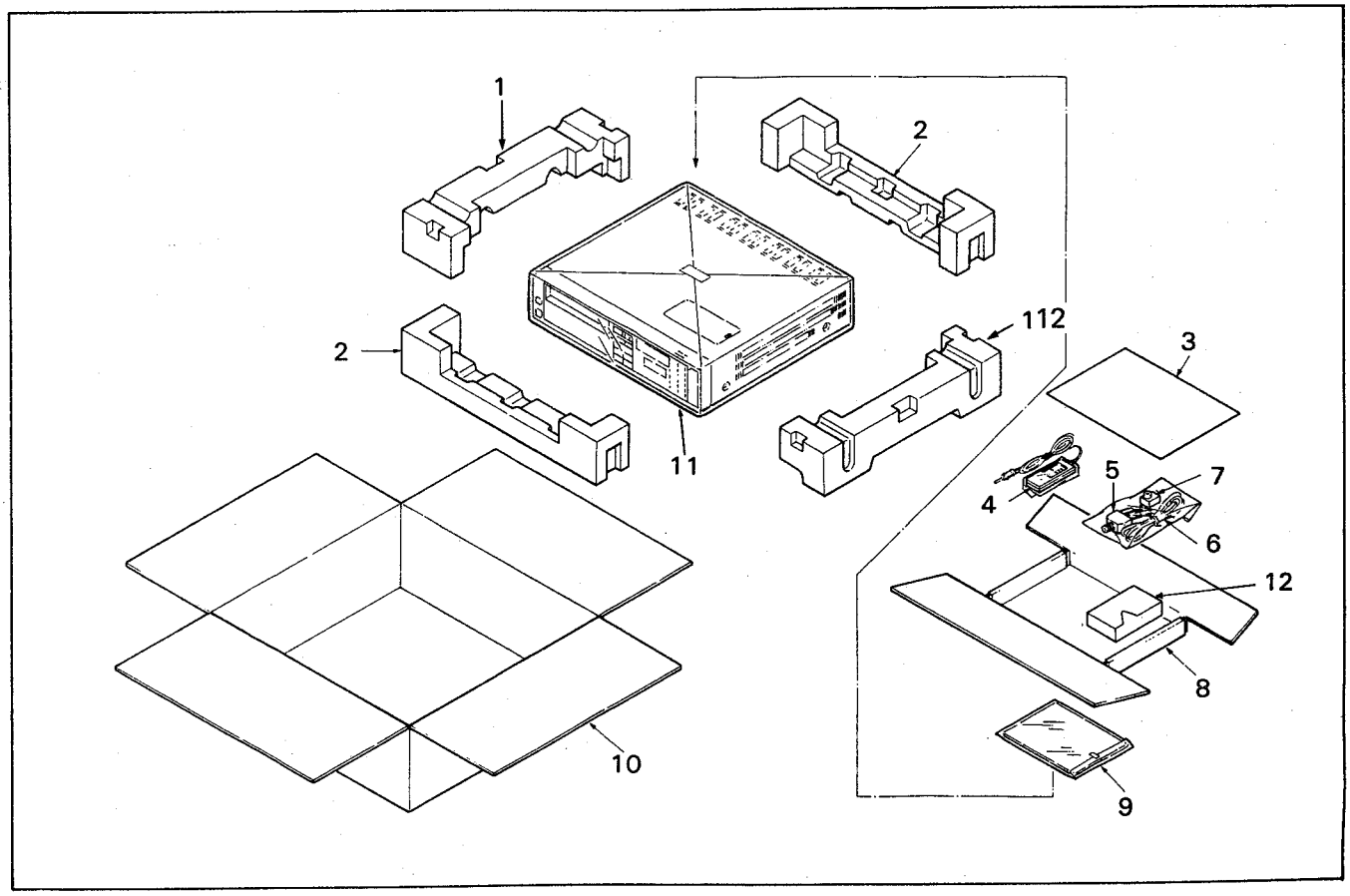


Key No.	Location No.	Part No.	Description
1	V811A	*70391081	Screw, 4 x 12 mm
2	V811	*70853065	Heat Sink
3	H003	70142052	Terminal Board Antenna
4	H003B	*70391083	Screw, 4 x 12 mm
5	H004	70123050	RF Unit MU8134
6	T802	70213075	Transformer, Power
7	B601F	*23030033	Screw, 4 x 12 mm
8	B604	70842182	Bracket, RE
9	U001	70191830	PC Board Assy, PIF. Selector
10	U501	70191832	PC Board Assy, Servo Logic
11	B603	*70842181	Bracket, Panel Right
12	V201A	*23030031	Screw, 3 x 8 mm
13	V201	*70852066	Retainer, Video Audio
14	U201	70191831	PC Board Assy, Video Audio
15	P651A	*70810115	Cover, Remote Control Jack
16	U502	70191866	PC Board Assy, Tracking Control
17	R550A	70862046	Knob, Tracking Control
18	UX01	70191948	PC Board Assy, Time Logic Control
19	B601G	*23035310	Screw, 3 x 10 mm
20	B609	70141022	Counter
21	UX02	70191835	PC Board Assy, Power Switch

Key No.	Location No.	Part No.	Description
22	B607	*70842179	Bracket Lift
23	B605	*70842180	Bracket, RE
24	B604	*70842182	Bracket
25	U802	70191833	PC Board Assy, Line Filter
26	U802A	*23030031	Screw, 3 x 6 mm
27	V802A	*70842207	Bracket, AC Outlet
28	P802	23116476	Plug, AC Outlet
29	P801A	70846044	Holder, Power Cord
30	P801	70168059	Power Cord
31	U801	70191834	PC Board Assy, Power
32	B609A	*70391094	Screw, 3 x 0.5 mm
33	B603	*70842181	Bracket, Right
34	V901	*70850051	Shield Plate
35	B612	*70842222	Shield Plate
36	B612A	*23035306	Screw, 3 x 6 mm

NOTE: Items marked (*) are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

3-12. PACKING ASSEMBLY



Key No.	Location No.	Part No.	Description
1	A702	70921111	Packing, Top
2	A703	70921112	Packing, Bottom
3	Y102	70942230	Sheet, Caution
4	Y140	70148080	Remocon Hand Set
5	Y125	70126029	Splitter, UHF/VHF
6	Y107	*70168017	Cable, F-F Type
7	Y105	70126005	Coil, Antenna Matching MT-73B
8	A707	70914013	Tray
9	Y101	70941308	Owner's Manual
	Y103	70948053	Warranty Card
	Y104	70942259	Quick Reference Card
	Y119	70865018	Channel Tag Sheet
10	A701	70913273	Carton Box
11	A705	*70933029	Sheet
12	Y113	70955007	Video Cassette Tape, L-250

NOTE: Items marked (*) are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SECTION 5. ELECTRICAL PARTS LIST

ABBREVIATIONS: Capacitors..... CD: Ceramic Disk, PF: Plastic Film, EL: Electrolytic.
Resistors..... CF: Carbon Film, CC: Carbon Composition, MF: Metal Film, OMF: Oxide Metal Film, VR: Variable Resistors.

(All CD and PF capacitors are ±5%, 50V and all resistor, ±5%, 1/8W unless otherwise).

NOTE: The parts identified by shading and ⚠ mark are critical for safety. Replace only with part number specified. The mounting position of replacement is to be identical with originals.

LOCATION NUMBER	PART NUMBER	DESCRIPTION
CAPACITORS		
U001 PIF SELECTOR PW UNIT 70191830		
C001,C002 C003,C004	24232103	CD,0.01mfd, +80%,−20%
C005	24232102	CD,1000pF,+80%,−20%
C006	24636478	EL,0.47mfd,50v
C007	24232103	CD,0.01mfd, +80%,−20%
C008	24636479	EL,4.7mfd,50v
C009	71591103	PF,0.01mfd
C010	24633330	EL,33mfd,16v
C011,C012	24636339	EL,3.3mfd,50v
C013	24232103	CD,0.01mfd, +80%,−20%
C014	24633470	EL,47mfd,16v
C015	24436010	CD,1pF
C016	24436159	CD,15pF
C017	24436120	CD,12pF
C018	24633471	EL,470mfd,16v
C019,C020	24436470	CD,47pF
C021	24232103	CD,0.01mfd, +80%,−20%
C022	24636100	EL,10mfd,50v
C023	24436270	CD,27pF
C024	24436020	CD,2pF
U201 VIDEO AUDIO PW UNIT 70191831		
C201,C202 C203	24232103	CD,0.01mfd, +80%,−20%
C204	24636010	EL,1mfd,50v
C205	24232103	CD,0.01mfd, +80%,−20%
C206	24636010	EL,1mfd,50v
C207	24232103	CD,0.01mfd, +80%,−20%
C208	24633100	EL,10mfd,16v
C209,C210 C211,C212	24232103	CD,0.01mfd, +80%,−20%
C213	24633100	EL,10mfd,16v
C214	24436331	CD,330pF
C215	24436620	CD,62pF
C216	24436471	CD,470pF
C217	24636010	EL,1mfd,50v

LOCATION NUMBER	PART NUMBER	DESCRIPTION
C218,C219 C220,C221	24232103	CD,0.01mfd, +80%,−20%
C222	24633100	EL,10mfd,16v
C223,C224	24436150	CD,15pF
C225	24633220	EL,22mfd,16v
C226,C227 C228	24232103	CD,0.01mfd, +80%,−20%
C229	24436241	CD,240pF
C230	24598681	PF,680pF
C231,C232 C233	24436121	CD,120pF
C234	24212821	CD,820pF,±10%
C235	24232223	CD,0.022mfd, +80%,−20%
C236	24617992	EL,2.2,mfd.50v
C237	24232103	CD,0.01mfd, +80%,−20%
C238	24633100	EL,10mfd,16v
C239	24617992	EL,2.2mfd,50v
C240	24212222	CD,2200pF,±10%
C241	24353150	CD,15pF
C242	24353820	CD,82pF
C243	24232103	CD,0.01mfd, +80%,−20%
C244	24353430	CD,43pF
C245	24636010	EL,1mfd,50v
C246	24617992	EL,2.2mfd,50v
C247	24232103	CD,0.01mfd, +80%,−20%
C248	24436120	CD,120pF
C249	24436471	CD,470pF
C250	70417014	Trimmer,8pF
C260	24436471	CD,470pF
C261	24436470	CD,47pF
C262	24212222	CD,2200pF,±10%
C263	24636010	EL,1mfd,50v
C264	24636229	EL,2.2mfd,50v
C265	24633220	EL,22mfd,16V
C266	24232103	CD,0.01mfd, +80%,−20%
C267	24436330	CD, 33pF
C268,C269	24232103	CD,0.01mfd,+80%,−20%
C270	24436101	CD,100pF
C271	24212222	CD,2200pF,±10%

LOCATION NUMBER	PART NUMBER	DESCRIPTION
C272	24692102	PF, 1000pF
C273	24633220	EL, 22mfd, 16v
C274	24436470	CD, 47pF
C275	24232103	CD, 0.01mfd, +80%, −20%
C276	24633221	EL, 220mfd, 16v
C277	24232103	CD, 0.01mfd, +80%, −20%
C278	24633221	EL, 220mfd, 16v
C279, C280 C281	24633220	EL, 22mfd, 16v
C282	24232103	CD, 0.01mfd, +80%, −20%
C283	24436221	CD, 220pF
C284	24598911	PF, 910pF
C285, C286	24232103	CD, 0.01mfd, +80%, −20%
C287	24436221	CD, 220pF
C288	24436431	CD, 430pF
C289	24232103	CD, 0.01mfd, +80%, −20%
C290	24353111	CD, 110pF
C291	24436080	CD, 8pF
C292	24633220	EL, 22mfd, 16v
C293	24633330	EL, 33mfd, 16v
C294	24232103	CD, 0.01mfd, +80%, −20%
C295	24436391	CD, 390pF
C296	24436151	CD, 150pF
C297	24232103	CD, 0.01mfd, +80%, −20%
C298	24867473	PF, 0.04mfd
C299	24633220	EL, 22mfd, 16v
C300	24636478	EL, 0.47mfd, 50v
C301, C302	71591104	PF, 0.1mfd
C303	24633221	EL, 220mfd, 16v
C304	24436331	CD, 330pF
C305	24631471	EL, 470mfd, 6.3v
C306	24632220	EL, 22mfd, 10v
C307	24212471	CD, 470pF, ±10%
C308	24232103	CD, 0.01mfd, +80%, −20%
C309	24436120	CD, 12pF
C310, C311	24436270	CD, 27pF
C312	24436120	CD, 12pF
C313	24232103	CD, 0.01mfd, +80%, −20%
C314	24436560	CD, 56pF
C315	24631221	EL, 220mfd, 6.3v
C317	24633220	EL, 22mfd, 16v
C318	24436620	CD, 62pF
C319	24436511	CD, 510pF
C320	24436221	CD, 220pF
C321	24436121	CD, 120pF

LOCATION NUMBER	PART NUMBER	DESCRIPTION
C322	24436621	CD, 620pF
C323	24436560	CD, 56pF
C324	24633220	EL, 22mfd, 16v
C325	24633330	EL, 33mfd, 16v
C326	24232103	CD, 0.01mfd, +80%, −20%
C327, C328	24633220	EL, 22mfd, 16v
C329	24633470	EL, 47mfd, 16v
C330	24633220	EL, 22mfd, 16v
C331	24436270	CD, 27pF
C332	24436101	CD, 100pF
C333	24232103	CD, 0.01mfd, +80%, −20%
C334	24633220	EL, 22mfd, 16v
C335	24232473	CD, 0.047mfd, +80%, −20%
C336	24436620	CD, 62pF
C337	24232103	CD, 0.01mfd, +80%, −20%
C338	24436050	CD, 5pF
C339	24436180	CD, 18pF
C340	24232223	CD, 0.022mfd, +80%, −20%
C341	24436910	CD, 91pF
U501 SERVO LOGIC PW UNIT 70191832		
C501	24632101	EL, 100mfd, 10v
C502	24636478	EL, 0.47mfd, 50v
C503	24635479	EL, 4.7mfd, 35v
C504, C505	71591103	PF, 0.01mfd
C506	24636478	EL, 0.47mfd, 50v
C508	24232103	CD, 0.01mfd, +80%, −20%
C509, C510	71591272	PF, 0.0027mfd
C511	71591393	PF, 0.039mfd
C512	24636010	EL, 1mfd, 50v
C513	24636339	EL, 3.3mfd, 50v
C514	24633100	EL, 10mfd, 16v
C516	24633220	EL, 22mfd, 16v
C517	24232103	CD, 0.01mfd, +80%, −20%
C518	24636229	EL, 2.2mfd, 50v
C519	24633470	EL, 47mfd, 16v
C520	24633220	EL, 22mfd, 16v
C522	24232223	CD, 0.022mfd, +80%, −20%
C523	24085023	EL, 10mfd, 16v
C524	24636010	EL, 1mfd, 50v
C525	24232103	CD, 0.01mfd, +80%, −20%
C526	24633220	EL, 22mfd, 16v
C527	24633100	EL, 10mfd, 16v
C530	24232103	CD, 0.01mfd, +80%, −20%
C531	24633220	EL, 22mfd, 16v

LOCATION NUMBER	PART NUMBER	DESCRIPTION
C532,C533 C534	24232103	CD, 0.01mfd, +80%,−20%
C535	24633220	EL, 22mfd, 16v
C536	24232103	CD, 0.01mfd, +80%,−20%
C537	24212121	CD, 120pF, ±10%
C538,C539	24212102	CD, 1000pF, ±10%
C540	24353470	CD, 47pF
C541	24598271	PF, 270pF
C542	24598561	PF, 560pF
C543	24212102	CD, 1000pF, ±10%
C544	24598561	PF, 560pF
C545	71591473	PF, 0.47mfd
C546,C547	24232103	CD, 0.01mfd, +80%,−20%
C548	24212391	CD, 390pF, ±10%
C550,C551	24232103	CD, 0.01mfd, +80%,−20%
C553	24633470	EL, 47mfd, 16v
C560	24436221	CD, 220pF
C601	24632470	EL, 47mfd, 10v
C602	24232103	CD, 0.01mfd, +80%,−20%
C603	24632101	EL, 100mfd, 10v
C605	24634101	EL, 100mfd, 25v
C607	24436101	CD, 100pF
C608	24436910	CD, 91pF
C609	24636479	EL, 4.7mfd, 50v
C610	24232103	CD, 0.01mfd, +80%,−20%
C611	24867392	PF, 3900pF
C612	71593223	PF, 0.022mfd
C613	24867392	PF, 3900pF
C614	71593223	PF, 0.022mfd
C615	24232223	CD, 0.022mfd, +80%,−20%
C616	24632220	EL, 22mfd, 10v
C617	24636229	EL, 2.2mfd, 50v
C618	24632470	EL, 47mfd, 10v
C619,C620	24232103	CD, 0.01mfd, +80%,−20%
C630	24632220	EL, 22mfd, 10v
C631,C632	24232103	CD, 0.01mfd, +80%,−20%
C633	71591333	PF, 0.033mfd
C634	24636229	EL, 2.2mfd, 50v
C638	24633220	EL, 22mfd, 16v
C639	24232103	CD, 0.01mfd, +80%,−20%
C640	24632470	EL, 47mfd, 10v
C641	24636339	EL, 3.3mfd, 50v
C643	24232103	CD, 0.01mfd, +80%,−20%
C644	24632470	EL, 47mfd, 10v
C645	24212221	CD, 220pF, ±10%
C646	71591272	PF, 0.0027mfd
C647	24232103	CD, 0.01mfd, +80%,−20%
U201 VIDEO AUDIO PW UNIT 70191831		
C701	24633100	EL, 10mfd, 16v
C702	24212152	CD, 1500pF, ±10%
C703	24633101	EL, 100mfd, 16v
C704	24633100	EL, 10mfd, 16v
C705	24432101	CD, 100pF, ±10%
C706	24692223	PF, 0.022mfd
C707	24692123	PF, 0.012mfd
C708	24632101	EL, 100mfd, 10v
C709	24636478	EL, 0.47mfd, 50v
C710	24633100	EL, 10mfd, 16v
C711	24635479	EL, 4.7mfd, 35v
C712	24633220	EL, 22mfd, 16v
C714	24636478	EL, 0.47mfd, 50v
C715	24212102	CD, 1000pF, ±10%
C716	24633220	EL, 22mfd, 16v
C717	24432101	CD, 100pF, ±10%
C718	24635339	EL, 3.3mfd, 35v
C719	24212821	CD, 820pF, ±10%
C720,C721	24633100	EL, 10mfd, 16v
C722	24633221	EL, 220mfd, 16v
C723	24212152	CD, 1500pF, ±10%
C724	24635479	EL, 4.7mfd, 35v
C725	24212102	CD, 1000pF, ±10%
C726	24867682	PF, 6800pF
C727	24633470	EL, 47mfd, 16v
C728	24212472	CD, 4700pF, ±10%
C729	24214221	CD, 220pF, ±10%
C730	24867124	PF, 0.12mfd
U802 LINE FILTER PW UNIT 70191833		
⚠C801	70416055	PF, 0.1mfd, 125v
U801 POWER PW UNIT 70191834		
C802,C803 C804,C805	24232103	CD, 0.01mfd, +80%,−20%
⚠C806	70415068	EL, 6800mfd, 35v
C807	24636470	EL, 47mfd, 50v
C808	24232103	CD, 0.01mfd, +80%,−20%
C809	24633470	EL, 47mfd, 16v
C810	24636470	EL, 47mfd, 50v
C811	24633470	EL, 47mfd, 16v
⚠C812	24633222	EL, 2200mfd, 16v
C813,C814	24634101	EL, 100,mfd, 25v
C815,C816	24632470	EL, 47mfd, 10v
C817	70415094	EL, 0.1mfd, 5.5V Supper
⚠C819	24641101	EL, 100mfd, 100v
C820	24636101	EL, 100mfd, 50v

LOCATION NUMBER	PART NUMBER	DESCRIPTION
⚠C822	24641470	EL, 47mfd, 100v
C823	24635101	EL, 100mfd, 35v
C826	24636470	EL, 47mfd, 50v
C827	24232103	CD, 0.01mfd, +80%,−20%
C830	24633100	EL, 10mfd, 16v
U001 PIF. SELECTOR PW UNIT 70191830		
CA01	24636478	EL, 0.47mfd, 50v
CA02,CA03	24232472	CD, 0.0047 mfd, +80%,−20%
CA04	71592223	PF, 0.022mfd, +10%
CA06	24232103	CD, 0.01mfd, +80%,−20%
CA07,CA08	24232223	CD, 0.022mfd, +80%,−20%
CA09	71591103	PF, 0.01mfd
CA10	24636470	EL, 47mfd, 50v
CA25	24232223	CD, 0.022mfd, +80%,−20%
CA26	24633101	EL, 100mfd, 16v
CA30, CA31	24232103	CD, 0.01mfd
CA32, CB01		+80%,−20%
CB02		
UX02 POWER SWITCH PW UNIT 70191835		
CL01	24632470	EL, 47mfd, 10v
UX01 TIMER & LOGICON PW UNIT 70191948		
CX01	70431470	EL, 47mfd, 10v
CX02	24232103	CD, 0.01mfd, +80%,−20%
CX03,CX04	24436101	CD, 100pF
CX05	24232103	CD, 0.01mfd, +80%,−20%

RESISTORS

U001 PIF. SELECTOR PW UNIT 70191830		
R001	24360910	CF, 91ohm
R002	24360301	CF, 300ohm
R003	24360562	CF, 5.6kohm
R004	24360391	CF, 390ohm
R005	24360152	CF, 1.5kohm
R006	24360330	CF, 33ohm
R007	24360391	CF, 390ohm
R008	24360392	CF, 3.9kohm
R009	24360683	CF, 68kohm
R010	24360221	CF, 220ohm
R011	24360824	CF, 820kohm
R012	24360152	CF, 1.5kohm
R013	24360271	CF, 270 ohm
R014	24360102	CF, 1kohm
R016	24360750	CF, 75kohm
R017	24941681	CC, 680ohm, 1/4w
R018	24360102	CF, 1kohm
R019	24360153	CF, 15kohm
R020	24360132	CF, 1.3kohm
R021	24360102	CF, 1kohm
R022	24360105	CF, 1Mohm
R023,R024	24360154	CF, 150kohm
R025	24360393	CF, 39kohm
R026	24360124	CF, 120kohm
R027	24360393	CF, 39kohm
R028	24360103	CF, 10kohm
R029	24360623	CF, 62kohm
R030,R031	24360274	CF, 270kohm
R032	24360363	CF, 36kohm
R033	24360103	CF, 10kohm
R034	24360155	CF, 1.5Mohm
R035,R036	24360433	CF, 43kohm
R037	24360824	CF, 820kohm
R038	24360243	CF, 24kohm
R039	24360103	CF, 10kohm
R040	24360224	CF, 220kohm
R041	24360244	CF, 240kohm
R051	24061149	VR, 330kohm, 0.15w
R052	24061138	VR, 4.7kohm, 0.15w
U201 VIDEO & AUDIO PW UNIT 70191831		
R201	24360472	CF, 4.7k
R202	24360103	CF, 10kohm
R203	24360333	CF, 33kohm
R204	24360123	CF, 12kohm
R205	24360620	CF, 62ohm
R206	24360681	CF, 680ohm
R207,R208	24360433	CF, 43kohm
R209	24360223	CF, 22kohm
R210	24360182	CF, 1.8kohm
R211	24360102	CF, 1kohm
R212,R213 R214,R215	24360303	CF, 30kohm
R216	24360152	CF, 1.5kohm
R217	24360223	CF, 22kohm
R218,R219	24360103	CF, 10kohm
R220	24360202	CF, 2kohm
R221	24360102	CF, 1kohm
R222	24360331	CF, 330ohm
R223	24360122	CF, 1.2kohm
R224	24360152	CF, 1.5kohm
R225	24360333	CF, 33kohm
R226	24360152	CF, 1.5kohm

LOCATION NUMBER	PART NUMBER	DESCRIPTION
R227	24360103	CF, 10k ohm
R229	24360271	CF, 270 ohm
R230	24360821	CF, 820 ohm
R231	24360103	CF, 10k ohm
R232	24360681	CF, 680 ohm
R233	24360152	CF, 1.5k ohm
R234,R235	24360102	CF, 1k ohm
R236,R237	24360471	CF, 470 ohm
R238	24360301	CF, 300 ohm
R239	24360152	CF, 1.5k ohm
R240	24360102	CF, 1k ohm
R241	24360104	CF, 100k ohm
R242	24360241	CF, 240 ohm
R243	24360431	CF, 430 ohm
R244	24360561	CF, 560 ohm
R245	24360103	CF, 10k ohm
R246	24360333	CF, 33k ohm
R247	24360472	CF, 4.7k ohm
R248	24360101	CF, 100 ohm
R249	24360223	CF, 22k ohm
R250,R251	70421199	VR, 3.3k ohm, 0.1w
R252	70421202	VR, 10k ohm, 0.1w
R253	24061134	VR, 1k ohm, 0.15w
R254	70421204	VR, 22k ohm, 0.1w
R255	24061131	VR, 330 ohm, 0.15w
R256	24061134	VR, 1k ohm. 0.15w
R260	24360682	CF, 6.8k ohm
R261	24360511	CF, 510 ohm
R262	24360332	CF, 3.3k ohm
R263	24360561	CF, 560 ohm
R264	24360822	CF, 8.2k ohm
R265	24360153	CF, 15k ohm
R266	24360512	CF, 5.1k ohm
R267	24360243	CF, 24k ohm
R268	24360104	CF, 100k ohm
R269	24360473	CF, 47k ohm
R270,R271	24360123	CF, 12k ohm
R272,R273	24360152	CF, 1.5k ohm
R274	24360512	CF, 5.1k ohm
R275	24360332	CF, 3.3k ohm
R276	24360102	CF, 1k ohm
R277	24360103	CF, 10k ohm
R278,R279 R280	24360122	CF, 1.2k ohm
R281	24360153	CF, 15k ohm
R282	24360101	CF, 100 ohm
R283	24360114	CF, 110k ohm
R284	24360222	CF, 22k ohm
R285,R286 R287,R288 R289	24360561	CF, 560 ohm
R290	24360222	CF, 2.2k ohm
R291	24360431	CF, 430 ohm
R292	24360332	CF, 3.3k ohm

LOCATION NUMBER	PART NUMBER	DESCRIPTION
R293	24360182	CF, 1.8k ohm
R294	24360223	CF, 22k ohm
R295	24360821	CF, 820 ohm
R296	24360102	CF, 1k ohm
R297	24378221	CF, 220 ohm, ±2%
R298	24378102	CF, 1k ohm, ±2%
R300	24360102	CF, 1k ohm
R302	24360513	CF, 51k ohm
R303	24360153	CF, 15k ohm
R304	24360222	CF, 2.2k ohm
R305	24360302	CF, 3k ohm
R306	24360431	CF, 430 ohm
R307	24360301	CF, 300 ohm
R308	24360101	CF, 100 ohm
R309	24360274	CF, 270k ohm
R310	24360622	CF, 6.2k ohm
R311	24360123	CF, 12k ohm
R312	24360102	CF, 1k ohm
R313	24360474	CF, 470k ohm
R314	24360431	CF, 430 ohm
R315	24360222	CF, 2.2k ohm
R316	24360182	CF, 1.8k ohm
R317	24360392	CF, 3.9k ohm
R318	24360123	CF, 12k ohm
R319	24360152	CF, 1.5k ohm
R320	24360101	CF, 100 ohm
R321	24360561	CF, 560 ohm
R322	24360102	CF, 1k ohm
R323	24360153	CF, 15k ohm
R324	24360222	CF, 2.2k ohm
R325	24360122	CF, 1.2k ohm
R326	24360821	CF, 820 ohm
R327	24360182	CF, 1.8k ohm
R329	24360122	CF, 1.2k ohm
R330	24360332	CF, 3.3k ohm
R331	24360243	CF, 24k ohm
R332	24360182	CF, 1.8k ohm
R333	24360274	CF, 270k ohm
R334	24360750	CF, 75 ohm
R335	24360332	CF, 3.3k ohm
R337	24360102	CF, 1k ohm
R338	24360750	CF, 75 ohm
R339	24360471	CF, 470 ohm
R340	24360104	CF, 100k ohm
R341	24360101	CF, 100 ohm
R342	24360471	CF, 470 ohm
R343	24360332	CF, 3.3k ohm
R344	24962101	OMF, 100 ohm, 1/2w
R345	24360101	CF, 100 ohm
R346,R347	24360102	CF, 1k ohm
R348	24360332	CF, 3.3k ohm
R349	24360102	CF, 1k ohm
R350	70421200	VR, 4.7k ohm, 0.1w
R351	70421199	VR, 3.3k ohm, 0.1w

LOCATION NUMBER	PART NUMBER	DESCRIPTION
R360	24360202	CF, 2k ohm
R362,R363	24360681	CF, 680 ohm
R364	24360202	CF, 2k ohm
R365	24360221	CF, 220 ohm
R366	24360821	CF, 820 ohm
R367	24360131	CF, 130 ohm
R368	24360122	CF, 1.2k ohm
R369	24378473	CF, 47k ohm, ±2%
R370	24378153	CF, 15k ohm, ±2%
R371	24378302	CF, 3k ohm, ±2%
R372	24378152	CF, 1.5k ohm, ±2%
R373	24360223	CF, 22k ohm
R374	24360270	CF, 27 ohm
R375	24360472	CF, 4.7k ohm
R376	24360332	CF, 3.3k ohm
R377	24360912	CF, 9.1k ohm
R378	24360301	CF, 300 ohm
R379	24360362	CF, 3.6k ohm
R380	24378182	CF, 1.8k ohm, ±2%
R381	24378162	CF, 1.6k ohm, ±2%
R382	24360153	CF, 15k ohm
R383	24360361	CF, 360 ohm
R384	24360123	CF, 12k ohm
R385	24360102	CF, 1k ohm
R386	24378472	CF, 4.7k ohm, ±2%
R387	24378392	CF, 3.9k ohm, ±2%
R388	24360751	CF, 750 ohm
R389	24360561	CF, 560 ohm
R390	24360102	CF, 1k ohm
R391	24360103	CF, 10k ohm
R392,R393	24360332	CF, 3.3k ohm
R394	24360620	CF, 62 ohm
R395	24360101	CF, 100 ohm
R396	24360152	CF, 1.5k ohm
R397	24360363	CF, 36k ohm
R398	24360222	CF, 2.2k ohm
R399	24360121	CF, 120 ohm
R400	24378511	CF, 510 ohm, ±2%
R401	24378102	CF, 1k ohm, ±2%
R402	24360561	CF, 560 ohm
R403	24360302	CF, 3k ohm
R404	24360562	CF, 5.6k ohm
R405	24360243	CF, 24k ohm
R406	24360100	CF, 10 ohm
R407	24360682	CF, 6.8k ohm
R408	24360562	CF, 5.6k ohm
R409	24378222	CF, 2.2k ohm, ±2%
R410	24378242	CF, 2.4k ohm, ±2%
R411	24360121	CF, 120 ohm
R412	24360102	CF, 1k ohm

LOCATION NUMBER	PART NUMBER	DESCRIPTION
U501 SERVO LOGIC PW UNIT 70191832		
R501	24360122	CF, 1.2k ohm
R502	24360911	CF, 910 ohm
R503	24360432	CF, 4.3k ohm
R504	24360102	CF, 1k ohm
R505	24360103	CF, 10k ohm
R507	24360104	CF, 100k ohm
R509	24360624	CF, 620k ohm
R510	24360512	CF, 5.1k ohm
R511	24360392	CF, 3.9k ohm
R512	24360103	CF, 10k ohm
R513	24360472	CF, 4.7k ohm
R515	24378154	CF, 150k ohm, ±2%
R516	24378512	CF, 5.1k ohm, ±2%
R517	24360563	CF, 56k ohm
R518	24360104	CF, 100k ohm
R519	24360562	CF, 5.6k ohm
R520	24360272	CF, 2.7k ohm
R521	24360112	CF, 1.1k ohm
R522	24360622	CF, 6.2k ohm
R523	24360103	CF, 10k ohm
R525	24360821	CF, 820 ohm
R528	24360472	CF, 4.7k ohm
R529	24360332	CF, 3.3k ohm
R531	24360472	CF, 4.7k ohm
R532	24360392	CF, 3.9k ohm
R533	24360331	CF, 330 ohm
R534	24360273	CF, 27k ohm
R535	24360122	CF, 1.2k ohm
R536	24360151	CF, 150 ohm
R537,R538 R539,R540 R541	24360104	CF, 100k ohm
R542	24360473	CF, 47k ohm
R543	24360103	CF, 10k ohm
R544	24360473	CF, 47k ohm
R545	24360163	CF, 16k ohm
R546	24360152	CF, 1.5k ohm
R548	24360753	CF, 75k ohm
R549	24360204	CF, 200k ohm
U502 TRACKING CONTROL PW UNIT 70191866		
R550	70421162	VR, 500k ohm, 1/5w
U501 SERVO LOGIC PW UNIT 70191832		
R551,R552	70421238	VR, 470k ohm, 0.1w
R553	70421237	VR, 330k ohm, 0.1w
R560	24360153	CF, 15k ohm
R561	24360154	CF, 150k ohm
R562	24360753	CF, 75k ohm
R563	24360514	CF, 510k ohm
R564	24360183	CF, 18k ohm
R565	24360114	CF, 110k ohm
R566	24360104	CF, 100k ohm

LOCATION NUMBER	PART NUMBER	DESCRIPTION
R567	24360183	CF, 18k ohm
R568	24360163	CF, 16k ohm
R569	24360913	CF, 91k ohm
R571,R572	24360203	CF, 20k ohm
R573	24360102	CF, 1k ohm
R574	24360223	CF, 22k ohm
R575	24378222	CF, 2.2k ohm, ±2%
R576	24378182	CF, 1.8k ohm, ±20%
R577	24360204	CF, 200k ohm
R578	24360122	CF, 1.2k ohm
R579	24360824	CF, 820k ohm
R580	24360222	CF, 2.2k ohm
R581	24360123	CF, 12k ohm
R582	24360203	CF, 20k ohm
R583	24360223	CF, 22k ohm
R584	24360473	CF, 47k ohm
R585	24360103	CF, 10k ohm
R586	24360334	CF, 330k ohm
R587,R588	24360622	CF, 6.2k ohm
R589	24360103	CF, 10k ohm
R590	24360472	CF, 4.7k ohm
R591	24360104	CF, 100k ohm
R593	24360124	CF, 120k ohm
R596	24360334	CF, 330k ohm
R597	24360302	CF, 3k ohm
R598	24360103	CF, 10k ohm
R599	24360682	CF, 68k ohm
R601	24360153	CF, 15k ohm
R602	24360332	CF, 3.3k ohm
R603	24360682	CF, 6.8k ohm
R604	24360153	CF, 15k ohm
R605	24360332	CF, 3.3k ohm
R606	24360682	CF, 6.8k ohm
R607,R608 R609	24360223	CF, 22k ohm
R610	24360104	CF, 100k ohm
R611	24360102	CF, 1k ohm
R612	24360163	CF, 16k ohm
R613	24360103	CF, 10k ohm
R614	24360753	CF, 75k ohm
R615	24360103	CF, 10k ohm
R616	24360223	CF, 22k ohm
R617	24360104	CF, 100k ohm
R618	24360223	CF, 22k ohm
R620	24360132	CF, 1.3k ohm
R621	24360102	CF, 1k ohm
R622	24360201	CF, 200 ohm
R623,R624 R625,R626 R627,R628 R629	24360103	CF, 10k ohm
R631,R632 R633	24360472	CF, 4.7k ohm
R634	24360474	CF, 470k ohm

LOCATION NUMBER	PART NUMBER	DESCRIPTION
R635	24360203	CF, 20k ohm
R638	24360473	CF, 47k ohm
R641,R642	24360753	CF, 75k ohm
R643	24360103	CF, 10k ohm
R644	24360102	CF, 1k ohm
R645	24360121	CF, 120 ohm
R646,R647 R648,R649	24360473	CF, 47k ohm
R651,R652	70421243	VR, 1k ohm
R660	24360472	CF, 4.7k ohm
R661	24360103	CF, 10k ohm
R662	24360222	CF, 2.2k ohm
R663,R664	24360103	CF, 10k ohm
R665	24360472	CF, 4.7k ohm
R666	24360103	CF, 10k ohm
R667	24360681	CF, 680 ohm
R668	24360122	CF, 1.2k ohm
R669	24360203	CF, 20k ohm
R670	24360103	CF, 10k ohm
R671	24360161	CF, 160 ohm
R672,R673	24360103	CF, 10k ohm
R674,R675	24360161	CF, 160 ohm
R678	24360101	CF, 100 ohm
R681	24360153	CF, 15k ohm
R682,R683 R684,R685 R686,R687 R688	24360103	CF, 10k ohm
R689,R690	24360153	CF, 15k ohm
R691,R692	24360242	CF, 2.4k ohm
R694	24360202	CF, 2k ohm
R696	24360103	CF, 10k ohm
R699	24360183	CF, 18k ohm

U201 VIDEO & AUDIO PW UNIT 70191831

R702,R703	24360104	CF, 100k ohm
R704,R705	24360562	CF, 5.6k ohm
R706	24360392	CF, 3.9k ohm
R707	24360243	CF, 24k ohm
R708	24360154	CF, 150k ohm
R709	24360104	CF, 100k ohm
R710	24360681	CF, 680 ohm
R711	24360473	CF, 47k ohm
R712	24360333	CF, 33k ohm
R713,R714	24360472	CF, 4.7k ohm
R715	24360562	CF, 5.6k ohm
R716	24360563	CF, 56k ohm
R717	24360472	CF, 4.7k ohm
R718	24360473	CF, 47k ohm
R719	24360332	CF, 3.3k ohm
R720	24360243	CF, 24k ohm
R722	24360103	CF, 10k ohm
R723	24360332	CF, 3.3k ohm
R724	24360202	CF, 2k ohm

LOCATION NUMBER	PART NUMBER	DESCRIPTION
R725	24360103	CF, 10k ohm
R726,R727	24360682	CF, 6.8k ohm
R729	24360332	CF, 3.3k ohm
R731	24360153	CF, 15k ohm
R732	24360105	CF, 1M ohm
R735,R737	24360102	CF, 1k ohm
R738	24360334	CF, 330k ohm
R739	24360394	CF, 390k ohm
R740	24360105	CF, 1M ohm
R741	24360182	CF, 1.8k ohm
R742	24360302	CF, 3k ohm
R743	24360103	CF, 10k ohm
R745	24360333	CF, 33k ohm
R749	24360363	CF, 36k ohm
R752	70421200	VR, 4.7k ohm, 0.1w
R753	70421210	VR, 220k ohm, 0.1w
R760	24360301	CF, 300 ohm
R761	24941229	CF, 2.2 ohm, 1/4w
R762	24360101	CF, 100 ohm
R763	24360153	CF, 15k ohm
⚠R764	70420013	Fusible, 4.7 ohm, 1/4w
R765	24360562	CF, 5.6k ohm
U802 LINE FILTER PW UNIT 70191833		
⚠R801	24942335	CC, 3.3M ohm, 1/2w
U801 POWER PW UNIT 70191834		
R802,R803	24360113	CF, 11k ohm
R804	24360102	CF, 1k ohm
R805,R806	24360182	CF, 1.8k ohm
R807	24360563	CF, 56k ohm
R808	24381182	OMF, 1.8k ohm, 1/2w
R809	24360333	CF, 33k ohm
R810	24360102	CF, 1k ohm
R811	24360103	CF, 10k ohm
R812,R813	24360473	CF, 47k ohm
R814	24381202	OMF, 2k ohm, 1/2w
R815	24382152	OMF, 1.5k ohm, 1w
R816	24360103	CF, 10k ohm
R817	24360301	CF, 300 ohm
R818	24360363	CF, 36k ohm
R819	24360432	CF, 4.3k ohm
R820	24360301	CF, 300 ohm
R821	24360223	CF, 22k ohm
R823	24383222	OMF, 2.2k ohm, 2w
R824	24553152	OMF, 1.5k ohm, 1w
R825	24383152	OMF, 1.5k ohm, 2w
R826	24360301	CF, 300 ohm
R827	24360104	CF, 100k ohm
R828	24360103	CF, 10k ohm
R829	24360563	CF, 56k ohm
R830	24360392	CF, 3.9k ohm
R831	24360202	CF, 2k ohm
R832	24360103	CF, 10k ohm

LOCATION NUMBER	PART NUMBER	DESCRIPTION
R833	24360333	CF, 33k ohm
R834	24382272	OMF, 2.7k ohm, 1W
R835	24552511	OMF, 510 ohm, 2w
R836,R840	24360122	CF, 1.2k ohm
R841	24360121	CF, 120 ohm
R851	70421222	VR, 1k ohm, 0.1w
U001 PIF. SELECTOR PW UNIT 70191830		
RA01	24360124	CF, 120k ohm
RA02	24360154	CF, 150k ohm
RA03,RA04	24360153	CF, 15k ohm
RA05	24360683	CF, 68k ohm
RA06	24360103	CF, 10k ohm
RA07	24360392	CF, 3.9k ohm
RA08	24360123	CF, 12k ohm
RA10	24360513	CF, 51k ohm
RA11	24360333	CF, 33k ohm
RA12	24360513	CF, 51k ohm
RA13	24360333	CF, 33k ohm
RA20	24360183	CF, 18k ohm
RA21	24360683	CF, 68k ohm
RA22	24360103	CF, 10k ohm
RA23	24360332	CF, 3.3k ohm
RA24	24360103	CF, 10k ohm
RA25	24360563	CF, 56k ohm
RA26,RA27	24360103	CF, 10k ohm
RA28	24360243	CF, 24k ohm
RA29	24360563	CF, 56k ohm
RA30	24360434	CF, 430k ohm
RA31	24360103	CF, 10k ohm
RA32,RA33 RA34,RA35 RA36,RA37 RA38,RA39 RA40,RA41 RA42,RA43 RA44,RA45	24360511	CF, 510 ohm
RA46	24360101	CF, 100 ohm
RA47,RA48 RA49	24360103	CF, 10k ohm
RA51	70421247	Potentiometer
RA61,RA62 RA63,RA64	24360103	CF, 10k ohm
RA65	24360105	CF, 1M ohm
RA66,RA67	24360153	CF, 15k ohm
RA68	24382471	OMF, 470 ohm, 1w
RA69	24360102	CF, 1k ohm
RB01,RB02	24360203	CF, 20k ohm
RB03	24360103	CF, 10k ohm
RB04	24360163	CF, 16k ohm
U501 SERVO LOGIC PW UNIT 70191832		
RF01	24360304	CF, 300k ohm
RF02	24360154	CF, 150k ohm
RF03	24360105	CF, 1M ohm

LOCATION NUMBER	PART NUMBER	DESCRIPTION
RF04	24360332	CF, 3.3k ohm
RF05	24360103	CF, 10k ohm
RF06	24360105	CF, 1M ohm
RF07	24360102	CF, 1k ohm
RF08	24360105	CF, 1M ohm
RF09,RF10	24360103	CF, 10k ohm
RF12	24360684	CF, 680k ohm
RF13	24360183	CF, 18k ohm
RF14	24360472	CF, 4.7k ohm
RF16,RF17	24360103	CF, 10k ohm
RF18,RF19	24360432	CF, 4.3k ohm
RF20,RF21	24360104	CF, 100k ohm
RF25	24360103	CF, 10k ohm
RF26	24378103	CF, 10k ohm, ±2%
RF27	24360114	CF, 110k ohm
RF28	24360113	CF, 11k ohm
RF29	24360163	CF, 16k ohm
RF30	24360221	CF, 220 ohm
RF31	24360244	CF, 240k ohm
RF32	24941365	CC, 3.6M ohm, 1/4w
RF33	24360103	CF, 10k ohm
RF34	24360102	CF, 1k ohm
RF35	24360103	CF, 10k ohm
RF36	24360273	CF, 27k ohm
RF37	24360103	CF, 10k ohm
RF38	24360272	CF, 2.7k ohm
RF39	24360682	CF, 6.8k ohm
RF40	24360272	CF, 2.7k ohm
RF41	24360103	CF, 10k ohm
RF42	24360683	CF, 68k ohm
RF43	24360122	CF, 1.2k ohm
RF44	24360471	CF, 470 ohm
RF45	24360242	CF, 2.4k ohm
RF46	24360103	CF, 10k ohm
RF47	24360273	CF, 27k ohm
RF48,RF49	24360223	CF, 22k ohm
RF60	24360823	CF, 82k ohm
RF61	24360472	CF, 4.7k ohm
RF62	24360394	CF, 390k ohm
RF63	24360153	CF, 15k ohm
RF65,RF66	24360473	CF, 47k ohm
RF67	24360682	CF, 6.8k ohm
RF68	24360222	CF, 2.2k ohm
RF69	24360393	CF, 39k ohm
UX01 TIMER & LOGICON PW UNIT 70191948		
RL01	24360682	CF, 6.8k ohm
RL03	24360203	CF, 20k ohm
RL04	24360221	CF, 220 ohm
RL05	24360681	CF, 680 ohm
RL06,RL07	24360221	CF, 220 ohm
RL08	24360681	CF, 680 ohm
RL09	24360133	CF, 13k ohm
RL10	24360221	CF, 220 ohm

LOCATION NUMBER	PART NUMBER	DESCRIPTION
UX02 POWER SWITCH PW UNIT 70191835		
RL11	24360753	CF, 75k ohm
UX01 TIMER & LOGICON PW UNIT 70191948		
RL12	24360432	CF, 4.3k ohm
U501 SERVO LOGIC PW UNIT 70191832		
RL61	24360302	CF, 3k ohm
RL62	24360392	CF, 3.9k ohm
RL63	24360103	CF, 10k ohm
RL67	24360472	CF, 4.7k ohm
RL69	24360103	CF, 10k ohm
RL71	24360203	CF, 20k ohm
RL72	24360103	CF, 10k ohm
RL73,RL74 RL75	24360273	CF, 27k ohm
RL76	24360104	CF, 100k ohm
RL84	24360223	CF, 22k ohm
RL85,RL86 RL87,RL88	24360472	CF, 4.7k ohm
RL90	24360182	CF, 1.8k ohm
RL91	24360124	CF, 120k ohm
RL92,RL93 RL94,RL95	24360473	CF, 47k ohm
RL96	24360102	CF, 1k ohm
UX01 TIMER & LOGICON PW UNIT 70191948		
RX01	24360113	CF, 1k ohm
RX02	24360472	CF, 4.7k ohm
RX03	24360103	CF, 10k ohm
RX04	24360102	CF, 1k ohm
RX05	24360473	CF, 47k ohm
RX06	24360102	CF, 1k ohm
RX07	24360105	CF, 1M ohm
RX08,RX09 RX10	24360472	CF, 4.7k ohm
UX02 POWER SWITCH PW UNIT 70191835		
RX11	24360181	CF, 180 ohm
UX01 TIMER & LOGICON PW UNIT 70191948		
RX12	24360473	CF, 47k ohm
RX13	24360102	CF, 1k ohm
RX14,RX15	24360472	CF, 4.7k ohm
RX16	71366103	CF, 10k ohm
RX17	24360472	CF, 4.7k ohm
RX18	24360152	CF, 1.5k ohm
RX19	24360752	CF, 7.5k ohm
RX20	24360331	CF, 330 ohm
RX21	24360223	CF, 22k ohm
RX22,RX23 RX24,RX25	24360682	CF, 6.8k ohm

LOCATION NUMBER	PART NUMBER	DESCRIPTION
COILS & TRANSFORMERS		
U001 PIFSELECTOR PW UNIT 70191830		
L001	23261980	Coil, Choke, TRF9225
L002	23262951	Coil, TRF1019, PIF
L003	23262854	Coil, TRF1227
L004	23262851	Coil, TRF1228, PIF
L005	23262850	Coil, AFT, TRF1229
L006	23283150	Coil, Peaking, TRF4150J
L008	23283240	Coil, Peaking, TRF4240JG
L009	70252029	Coil, Descriminator, TRF-V601
L010	23251999	Coil, Choke, TRF9006
U201 VIDEO & AUDIO PW UNIT 70191831		
L202	23283120	Coil, Peaking, TRF4120J
L203	23283121	Coil, Peaking, TRF4121JG
L204	23283102	Coil, Peaking, TRF4102J
L205	23283479	Coil, Peaking, TRF4479J
L206	23283221	Coil, Peaking, TRF4221JG
L207	23283751	Coil, Peaking, TRF4751JG
L208	23283560	Coil, Peaking, TRF4560J
L210	23283151	Coil, Peaking, TRF4151J
L211	23283241	Coil, Peaking, TRF4241JG
L212	23283680	Coil, Peaking, TRF4680J
L213	70211046	Coil, Choke, 10mH
L214,L215	23283180	Coil, Peaking, TRF4180JA
L220	23283270	Coil, Peaking, TRF4270J
L222	23283221	Coil, Peaking, TRF4221JG
L223	23283271	Coil, Peaking, TRF4271J
L224	23283221	Coil, Peaking, TRF4221JG
L225,L226	23283101	Coil, Peaking, TRF4101J
L228,L230	23283680	Coil, Peaking, TRF4680J
L229	23283560	Coil, Peaking, TRF4560J
L233	23283829	Coil, Peaking, TRF4829J
L250	70252017	Coil, Variable, TRV017
L701	23283391	Coil, Peaking, TRF4391
T701	70214002	Transformer, Erase Oscillation
U802 LINEFILTER PW UNIT 70191833		
⚠T801	23211997	Coil, Line Filter, TRF3004C
COMPONENTS NOT MOUNTED ON PC BOARDS		
⚠T802	70213075	Transformer, VPW-M32N
U501 SERVO LOGIC PW UNIT 70191832		
TF01	23252969	Coil, 6.7/7.4MHz Oscillator, TRF7035

LOCATION NUMBER	PART NUMBER	DESCRIPTION
TRANSISTORS		
U001 PIF SELECTOR PW UNIT 70191830		
Q001	A6708871	NPN Transistor, 2SC388ATM
Q004	A6534045	PNP Transistor, 2SA1015-Y
Q005	A6048371	FET Transistor, 2SK30A-GR
Q006	A6332430	NPN Transistor, 2SC2458-Y
Q007	A6048371	FET Transistor, 2SK30A-GR
Q008,Q009 Q010	A6534430	PNP Transistor, 2SA1048-Y
Q011,Q012	A6317567	NPN Transistor, 2SC1815-GR
Q013	A6332430	NPN Transistor, 2SC2458-Y
Q014	A6534045	PNP Transistor, 2SA1015-Y
Q015	A6317547	NPN Transistor, 2SC1815-Y
U201 VIDEO AUDIO PW UNIT 70191831		
Q206	A6332430	NPN Transistor, 2SC2458-Y
Q207	A6509141	PNP Transistor, 2SA562TMY(FA)
Q208,Q209 Q210,Q211	A6332430	NPN Transistor, 2SC2458-Y
Q212	A6534430	PNP Transistor, 2SA1048-Y
Q213	A6534045	PNP Transistor, 2SA1015-Y
Q214	A6509141	PNP Transistor, 2SA562TMY(FA)
Q215,Q216	A6332430	NPN Transistor, 2SC2458-Y
Q217	A6534430	PNP Transistor, 2SA1048-Y
Q220,Q221 Q222,Q223	A6332430	NPN Transistor, 2SC2458-Y
Q224,Q225	A6534430	NPN Transistor, 2SA1048-Y
Q226,Q227	A6534045	PNP Transistor, 2SA1015-Y
Q228	A6534430	NPN Transistor, 2SA1048-Y
Q229	A6317547	NPN Transistor, 2SC1815-Y
Q230	A6319302	NPN Transistor, 2SC1959-Y(FA)

LOCATION NUMBER	PART NUMBER	DESCRIPTION
Q231	A6332430	NPN Transistor, 2SC2458-Y
Q232,Q233	A6534430	PNP Transistor, 2SA1048-Y
Q235	A6534430	PNP Transistor, 2SA1048-Y
Q236	A6332430	NPN Transistor, 2SC2458-Y
Q237	A6534430	PNP Transistor, 2SA1048-Y
Q238,Q239 Q240	A6332430	NPN Transistor, 2SC2458-Y
Q241	A6319302	NPN Transistor, 2SC1959-Y(FA)
Q242	A6534430	PNP Transistor, 2SA1048-Y
Q243,Q244 Q245,Q246 Q247,Q248	A6332430	NPN Transistor, 2SC2458-Y
Q249	A6534430	PNP Transistor, 2SA1048-Y
Q250	A6342210	NPN Transistor, 2SC2878-B
Q251	A6534045	PNP Transistor, 2SA1015-Y
Q252	A6534430	PNP Transistor, 2SA1048-Y
Q256	A6319302	NPN Transistor, 2SC1959-Y(FA)

U501 SERVO LOGIC PW UNIT 70191832

Q504	A6332430	NPN Transistor, 2SC2458-Y
Q505	A6534430	PNP Transistor, 2SA1048-Y
Q506	A6332450	NPN Transistor, 2SC2458-BL
Q507	A6332430	NPN Transistor, 2SC2458-Y
Q508	A6534430	PNP Transistor, 2SA1048-Y
Q509,Q510 Q512,Q513	A6332430	NPN Transistor, 2SC2458-Y
Q514	A6534430	PNP Transistor, 2SA1048-Y
Q516	A6841900	NPN Transistor, 2SD549
Q517	A6533240	PNP Transistor, 2SA966-Y
Q518	A6332430	NPN Transistor, 2SC2458-Y
Q519	A671666H	NPN Transistor, 2SC496-Y
Q521	A6332430	NPN Transistor, 2SC2458-Y

LOCATION NUMBER	PART NUMBER	DESCRIPTION
Q522	A6534430	PNP Transistor, 2SA1048-Y
Q523,Q524	A6332430	NPN Transistor, 2SC2458-Y
Q526	A6534430	PNP Transistor, 2SA1048-Y
Q528,Q529 Q530	A6332430	NPN Transistor, 2SC2458-Y
Q531	A6534430	PNP Transistor, 2SA1048-Y
Q532,Q533 Q534,Q535 Q536,Q537	A6332430	NPN Transistor, 2SC2458-Y
Q610,Q611	A6534430	PNP Transistor, 2SA1048-Y
Q612	A6332430	NPN Transistor, 2SC2458-Y
Q613	A6534430	PNP Transistor, 2SA1048-Y
Q614,Q615	A6332430	NPN Transistor, 2SC2458-Y
Q616	A6534430	PNP Transistor, 2SA1048-Y
Q617	A6332430	NPN Transistor, 2SC2458-Y
Q618	A6317547	NPN Transistor, 2SC1815-Y
Q619,Q620 Q621,Q622 Q623,Q624 Q625,Q626 Q627,Q628 Q629,Q630 Q631,Q632 Q633,Q635 Q636,Q637	A6332430	NPN Transistor, 2SC2458-Y
Q651,Q652 Q653,Q654 Q655,Q656 Q657,Q658 Q661,Q662 Q663,Q664	A6533240	PNP Transistor, 2SA966-Y
Q670	A6325540	NPN Transistor, 2SC2236-Y
Q671,Q672	A6841900	NPN Transistor, 2SD549
Q673,Q674 Q675	A6332430	NPN Transistor, 2SC2458-Y

U201 VIDEO & AUDIO PW UNIT 70191831

Q703	A6332430	NPN Transistor, 2SC2458-Y
Q704,Q705	A6325825	NPN Transistor, 2SC2240-GR

LOCATION NUMBER	PART NUMBER	DESCRIPTION
Q706	A6533625	PNP Transistor, 2SA970-GR
Q707,Q708 Q709,Q710 Q711	A6332430	NPN Transistor, 2SC2458-Y
Q713	A6319302	NPN Transistor, 2SC1959-Y(FA)
COMPONENTS NOT MOUNTED ON PC BOARDS		
Q801	A6848402	NPN Transistor, 2SD878 FA-1
U801 POWER PW UNIT 70191834		
Q802	A6317547	NPN Transistor, 2SC1815-Y
Q803	A6848520	NPN Transistor, 2SD880-Y
Q804	A6317547	NPN Transistor, 2SC1815-Y
Q805	A6533625	PNP Transistor, 2SA970GR
Q806,Q807	A6317547	NPN Transistor, 2SC1815-Y
Q808	A6534045	PNP Transistor, 2SA1015-Y
Q809	A6317547	NPN Transistor, 2SC1815-Y
Q810,Q811	A6848520	NPN Transistor, 2SD880-Y
Q812	A6534125	PNP Transistor, 2SA1020-Y
Q813,Q814	A6317547	NPN Transistor, 2SC1815-Y
Q815	A6332430	NPN Transistor, 2SC2458-Y
Q816	A6324942	NPN Transistor, 2SC2229-Y
Q817	A6533625	PNP Transistor, 2SA970-GR
Q820	A6317547	NPN Transistor, 2SC1815-Y
U001 PIF. SELECTOR PW UNIT 70191830		
QA02	A6534045	PNP Transistor, 2SA1015-Y
QA03	A6534430	PNP Transistor, 2SA1048-Y
QA04,QA05	A6332430	NPN Transistor, 2SC2458-Y
QA08	A6534430	PNP Transistor, 2SA1048-Y
QA09,QA10	A6534045	PNP Transistor, 2SA1015-Y
QA11	A6332430	NPN Transistor, 2SC2458-Y

LOCATION NUMBER	PART NUMBER	DESCRIPTION
QA12,QA13	A6317547	NPN Transistor, 2SC1815-Y
QA14	A6534430	PNP Transistor, 2SA1048-Y
QB01	A6534045	PNP Transistor, 2SA1015-Y
UX01 TIMER & LOGICON PW UNIT 70191948		
QL01,QL02	A6534430	PNP Transistor, 2SA1048-Y
QL03	A6332450	NPN Transistor, 2SC2458-BL
UX02 POWER SWITCH PW UNIT 7991835		
QL04	A6332430	NPN Transistor, 2SC2458-Y
UX01 TIMER & LOGICON PW UNIT 70191948		
QX02,QX03 QX04	A6332430	NPN Transistor, 2SC2458-Y
DIODES		
U001 PIF. SELECTOR PW UNIT 70191830		
D001	A7246711	Diode, 1S1555(TV)
U201 VIDEO AUDIO PW UNIT 70191831		
D201,D202 D203,D204 D205,D206 D207	A7246711	Diode, 1S1555(TV)
D208	A7110076	Diode, 05Z6.2Y, Zener
D209,D210 D211,D212	A7246711	Diode, 1S1555(TV)
D213	A7110114	Diode, 05Z6.8X, Zener
D214	A7246711	Diode, 1S1555(TV)
U501 SERVO LOGIC PW UNIT 70191832		
D501,D502 D503,D504 D505,D506 D507,D508 D509,D510 D511,D512 D513,D514 D515,D517 D518	A7246711	Diode, 1S1555(TV)
D520	A7110261	Diode, 05Z9.1X, Zener
D521,D522 D523,D525 D527,D528 D529,D601 D602,D604 D605,D606 D607,D608 D609,D612 D613,D615 D616	A7246711	Diode, 1S1555(TV)
D617	A7109364	Diode, 05Z3.6Z, Zener

LOCATION NUMBER	PART NUMBER	DESCRIPTION
D618,D619 D620,D621 D622,D623 D624,D625 D626	A7246711	Diode, 1S1555(TV)
U201 VIDEO & AUDIO PW UNIT 70191831		
D701,D702 D703	A7246711	Diode, 1S1555(TV)
U801 POWER PW UNIT 70191834		
D801	A7246711	Diode, 1S1555(TV)
⚠D802,D803	70115172	Diode, 30D1FC
⚠D804,D805	70115172	Diode, 30D1FC
D806	A7110016	Diode, 05Z5.6X, Zener
D807	A7110159	Diode, 05Z7.5X, Zener
D808	A7110207	Diode, 05Z8.2X, Zener
D809	A7109473	Diode, 05Z4.7X, Zener
D810	A7110042	Diode, 05Z5.1Z, Zener
D811	A7246711	Diode, 1S1555(TV)
D812	A7110075	Diode, 05Z6.2X, Zener
D813,D814 D815,D816 D817	A7246711	Diode, 1S1555(TV)
D818	A7568521	Diode, 1S1885
⚠D819,D820	A7568754	Diode, 1S1887A, FA-1
D821	A7110646	Diode, 05Z22Y, Zener
D822	A7110647	Diode, 05Z22Z, Zener
D823	A7110508	Diode, 05Z15X, Zener
D824	A7110462	Diode, 05Z13Y, Zener
D830	A7109396	Diode, 05Z3.9Z, Zener
D831,D832	A7246711	Diode, 1S1555(TV)
U001 PIF. SELECTOR PW UNIT 70191830		
DA01,DA02 DA04,DA05 DA06,DA07	A7246711	Diode, 1S1555(TV)
DA08	23115878 or	Diode, μPC574JC or
DA08	23115922	Diode, μPC574J
DA09	A7246711	Diode, 1S1555(TV)
DA10	A7109474	Diode, 05Z4.7Y, Zener
DA11,DA12 DA13,DA14 DA15,DA16 DA17,DA18 DA19,DA20 DA21,DA22 DA23,DA24 DA25,DA26 DA27,DA28 DA29,DA30 DA31,DA32	A7246653	Diode, 1S1554(TV)

LOCATION NUMBER	PART NUMBER	DESCRIPTION
DA33,DA34 DA35,DA36 DA37,DA38	A7246653	Diode, 1S1554(TV)
DA39	A7246711	Diode, 1S1555(TV)
DA40	A7110463	Diode, 05Z13Z, Zener
UX01 TIMER & LOGICON PW UNIT 70191948		
DA61,DA62 DA63,DA64 DA65,DA66 DA67,DA68 DA69,DA70 DA71,DA72 DA73,DA74	A8605666	Diode, TLG113A, LED
DA75,DA76 DA77,DA78 DA79,DA80 DA81,DA82 DA83,DA84 DA85,DA86 DA87,DA88	A7160570	Diode, 1SS176
U001 PIF. SELECTOR PW UNIT 70191830		
DB01,DB02 DB03	A7246711	Diode, 1S1555(TV)
DB04	A7110311	Diode, 05Z10X, Zener
UX01 TIMER LOGICON PW UNIT 70191948		
DL01,DL02	A8600607	Diode, TLR113, LED
DL03,DL04 DL05,DL06	A8605666	Diode, TLG113A, LED
DL07,DL08	A8600607	Diode, TLR113, LED
DL09	A8605666	Diode, TLG113A, LED
UX02 POWERSWITCH PW UNIT 70191835		
DL10,DL11	A7246711	Diode, 1S1555(TV)
UX01 TIMER & LOGICON PW UNIT 70191948		
DX01,DX02	A7160570	Diode, 1SS176
UX02 POWER SWITCH PW UNIT 70191835		
DX04	A8600607	Diode, TLR113, LED
UX01 TIMER LOGICON PW UNIT 70191948		
DX05,DX06 DX07,DX08	A7160570	Diode, 1SS176

INTEGRATED CIRCUITS

U001 PIF SELECTOR PW UNIT 70191830		
IC002	B0354710	IC, TA7607AP
IC003	B0325290	IC, TA7337P

LOCATION NUMBER	PART NUMBER	DESCRIPTION
U201 VIDEO & AUDIO PW UNIT 70191831		
IC201	B0325300	IC, TA7339P
IC202	B0356720	IC, TA7672P
IC203	B0356650	IC, TA7665P, 1 TIP CHROMA
IC204	B0356940	IC, TA7693P
U501 SERVO LOGIC PW UNIT 70191832		
IC501	B0430810	IC, TM4217P
IC502, IC503	B0351500	IC, TA75902P
IC601	B0403539	IC, TMP4320P-6205
IC602	B0403647	IC, TMP4310AP-3323
IC603	B0351500	IC, TA75902P
U201 VIDEO & AUDIO PW UNIT 70191831		
IC701	B0312560	IC, TA7137P
IC702	B0325080	IC, TA7325P, DUAL PRE
U001 PIF. SELECTOR PW UNIT 70191830		
ICA01	70119177	IC, μPC1363C
UX01 TIMER & LOGICON PW UNIT 70191948		
ICX01	B0405560	IC, TCP4633-9903X

CIRCUIT BOARD ASSEMBLIES

MODULE UNITS AND CIRCUIT BOARD ASSEMBLES

ASSY		
U001	70191830	PC Board Assy, PIF Selector
U201	70191831	PC Board Assy, Video Audio
U501	70191832	PC Board Assy, Servo Logic
U502	70191866	PC Board Assy, Tracking Control
U801	70191834	PC Board Assy, Power
U802	70191833	PC Board Assy, Line Filter
UX01	70191948	PC Board Assy, Timer Logic Control
UX02	70191835	PC Board Assy, Power Switch

MISCELLANEOUS

UX01 TIMER & LOGICON PW UNIT 70191948		
DA61A	70843034	Holder, LED, CH IND.
DL01A, DL02A, DL03A, DL04A, DL05A, DL06A	70862018	Holder, LED
DL07A	70843035	Holder, LED
UX02 POWER SWITCH PW UNIT 70191835		
DX04A	70862018	Holder, LED

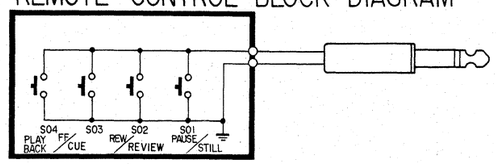
LOCATION NUMBER	PART NUMBER	DESCRIPTION
U802 LINE FLTER PW UNIT 70191833		
⚠F801	23144929	Fuse, 1.2A
⚠F801A	23165081	Holder, Fuse
U801 POWER PW UNIT 70191834		
⚠F802	70144028	Fuse, 2A
⚠F802A	23165102	Holder, Fuse
⚠F803	23144907	Fuse, 125V, 1.0A, UL
⚠F803A	23165102	Holder, Fuse
⚠F804	23144908	Fuse, 125V, 0.5A, UL
⚠F804A	23165102	Holder, Fuse
COMPONENTS NOT MOUNTED ON PC BOARDS		
G105E	70321601	Earth Cap
UX01 TIMER & LOGICON PW UNIT 70191948		
GX01	70113037	FIP, 7GM10, Timer
GX01A	70843023	Holder, FIP
COMPONENTS NOT MOUNTED ON PC BOARDS		
H003	70142052	ANT Terminal Board, VT906
H004	70123050	RF Unit, MU8134
U201 VIDEO & AUDIO PW UNIT 70191831		
P207	70163065	Jack, With Switch
P208	70163061	Jack
P209	70163065	Jack, With Switch
P210	70163061	Jack
U501 SERVO LOGIC PW UNIT 70191832		
P651	70163034	Jack
P651A	70810115	Cover, Remote Jack
COMPONENTS NOT MOUNTED ON PC BOARDS		
⚠P801	70168059	Power Cord
⚠P801A	70846044	Holder, Cord
⚠P802	23116476	Plug, AC Outlet
U001 PIF. SELECTOR PW UNIT 70191830		
RA51	70421247	Potentiometer, 14 Position
U502 TRACKING CONTROL PW UNIT 70191866		
S501	23145719	Switch, Slide, 2C2P
COMPONENTS NOT MOUNTED ON PC BOARDS		
S501A	70867092	Cover, Slide Switch
U001 PIF. SELECTOR PW UNIT 70191830		
SA10	70145197	Switch, Door
SA11	70145171	Switch, Slide

LOCATION NUMBER	PART NUMBER	DESCRIPTION
UX01 TIMER & LOGICON PW UNIT 70191948		
SA61,SA62 SL01,SL02 SL03,SL04 SL05,SL06 SL07,SX01 SX02,SX03 SX04,SX05	70145200	Switch, Tact
UX02 POWER SWITCH PW UNIT 70191835		
SX08,SX09	70145200	Switch, Tact
U201 VIDEO & AUDIO PW UNIT 70191831		
X201	70138005	Delay Line, EN-645A
X202	70138002	Crystal, 3.58MHz
X203	23153988	Crystal, 3.58MHz
UX01 TIMER LOGICON PW UNIT 70191948		
XX01	70153028	Resonator, KBR400B
U001 PIF. SELECTOR PW UNIT 70191830		
Z001	23107953	PIF Surface Filter, F1032B, 45.75 MHz
Z002	23107976	Ceramic Filter, 4.5MHz
Z003	23107999	Filter, Ceramic, 4.5MHz
U201 VIDEO & AUDIO PW UNIT 70191831		
Z201	23107986	Filter, Ceramic, 4.27MHz
Z202	70132045	Filter, BPF, 3.58MHz
Z203	70132067	Filter, LC2095
Z204	70132068	Filter, LC707E
Z251	70132059	Filter, 175fH
U501 SERVO LOGIC PW UNIT 70191832		
Z601	70153031	Resonator, KBR455H, Ceramic
Z602	70427014	Resistor Block, 4.7k ohm x 8, 1/8w
Z603	24094863	Capacitor Block, 0.01MFD x4
U201 VIDEO & AUDIO PW UNIT 70191831		
Z701	70212019	Coil, 65kHz Trap
VHF/UHF TUNER		
U001 PIF SELECTOR PW UNIT 70191830		
H001	70121024	Tuner, EL533

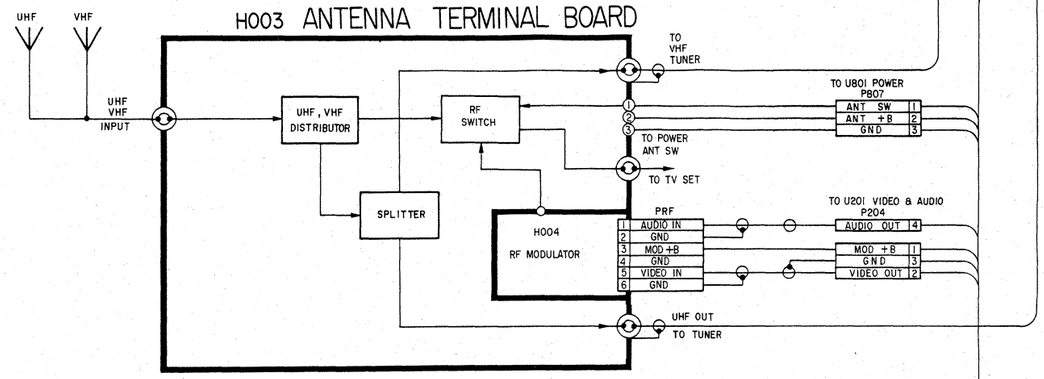
TOSHIBA

BLOCK DIAGRAM OF V-C300

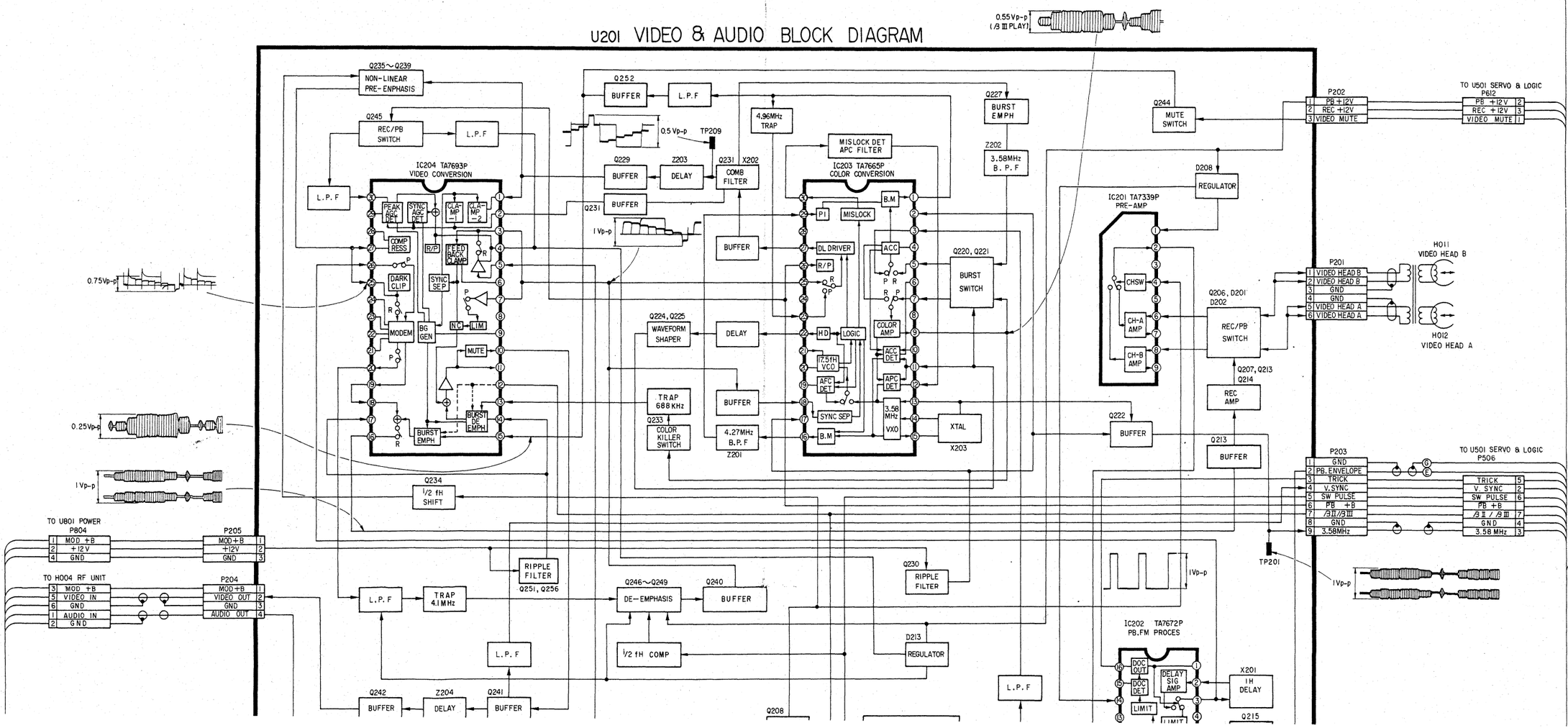
REMOTE CONTROL BLOCK DIAGRAM

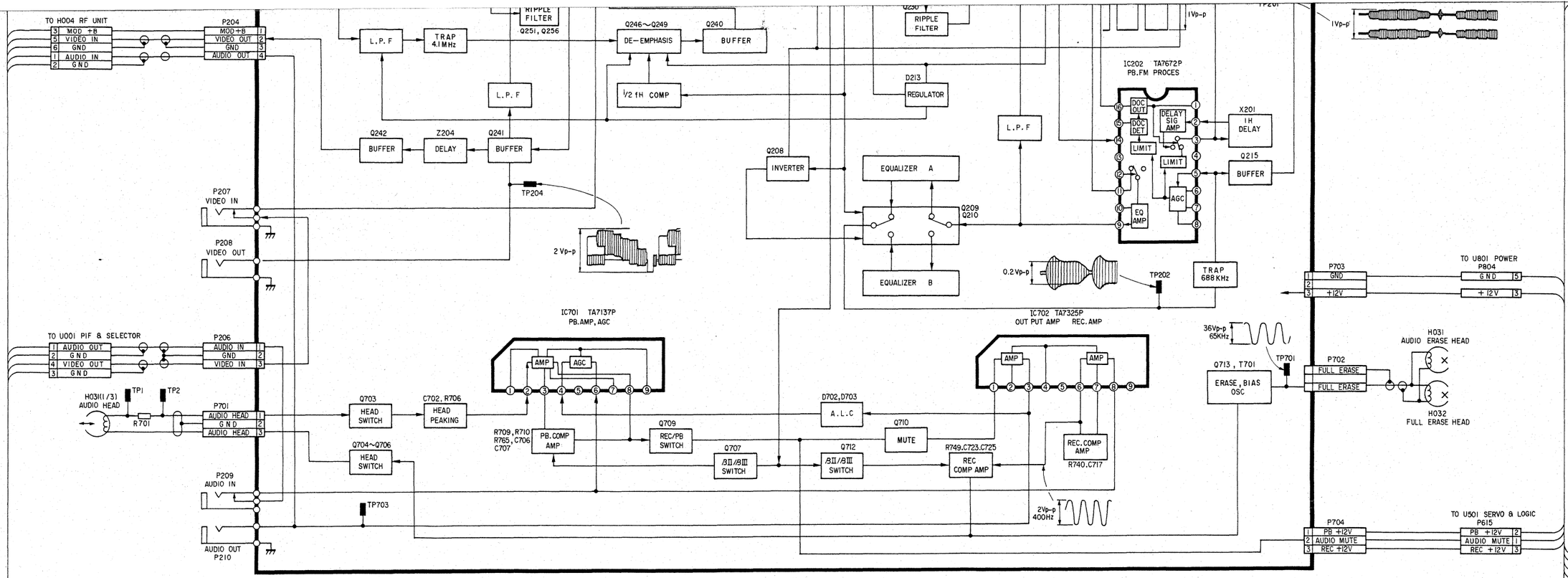


H003 ANTENNA TERMINAL BOARD

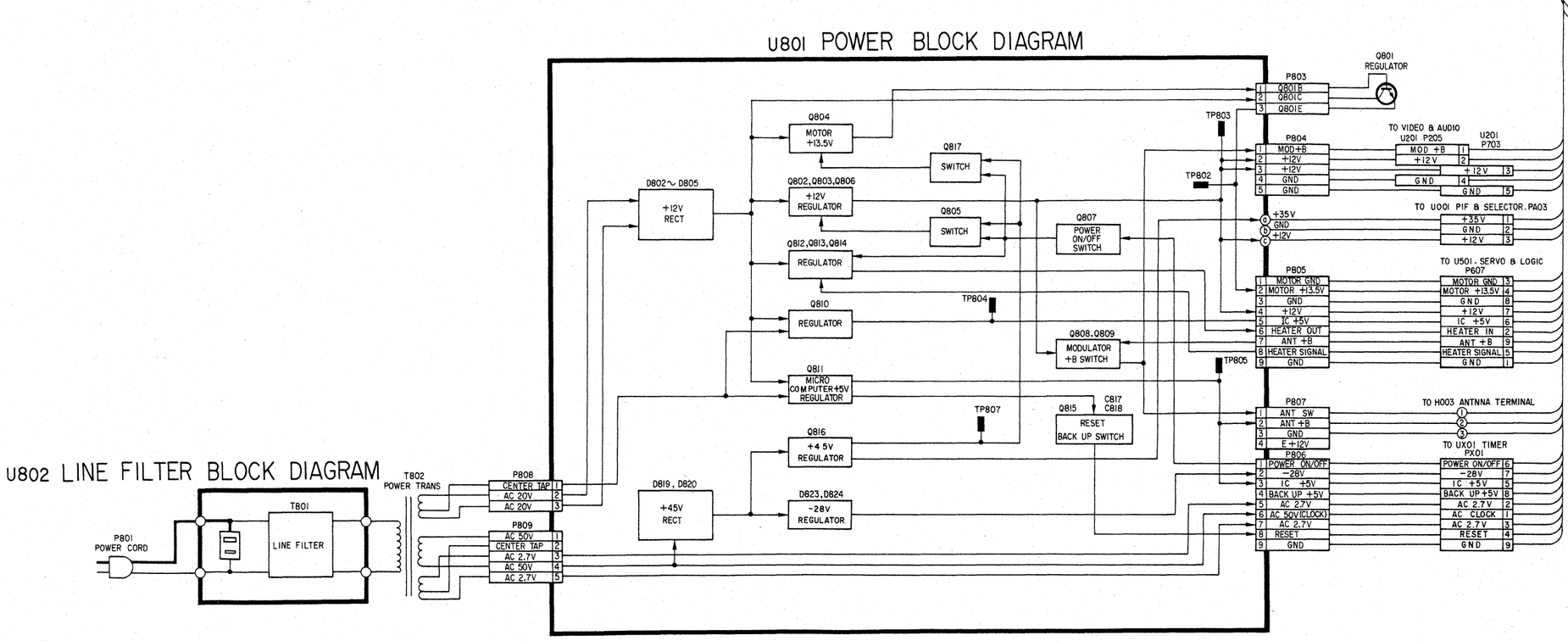


U201 VIDEO & AUDIO BLOCK DIAGRAM

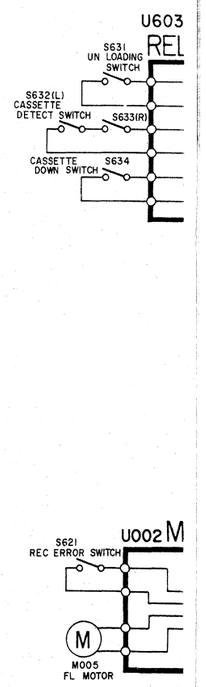




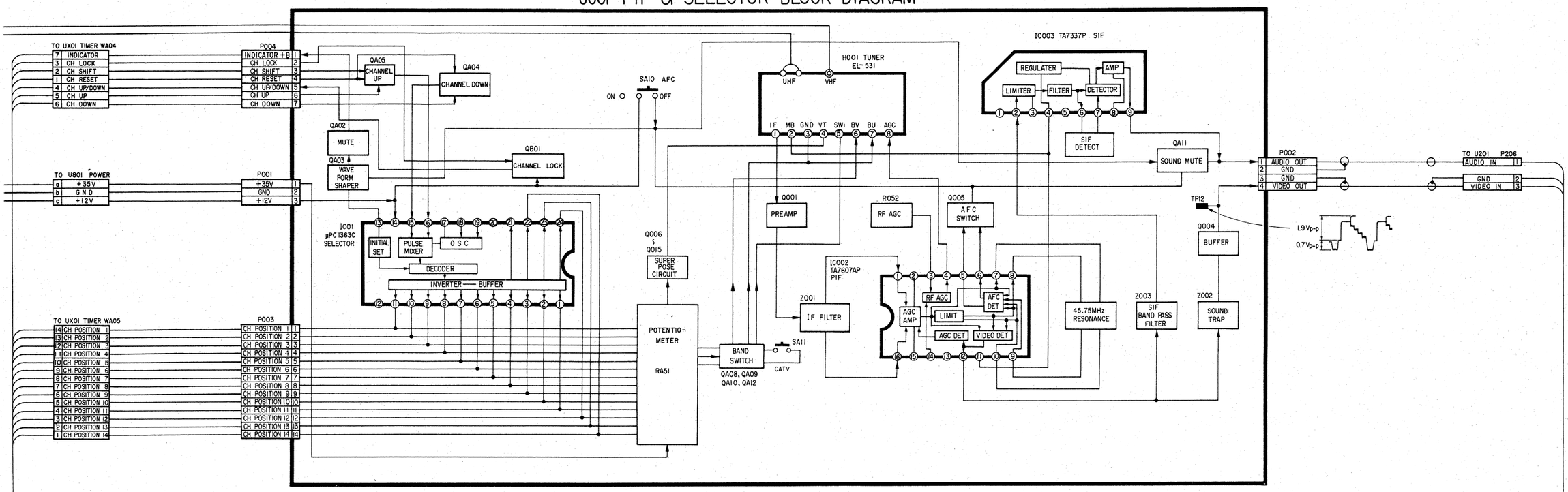
U801 POWER BLOCK DIAGRAM



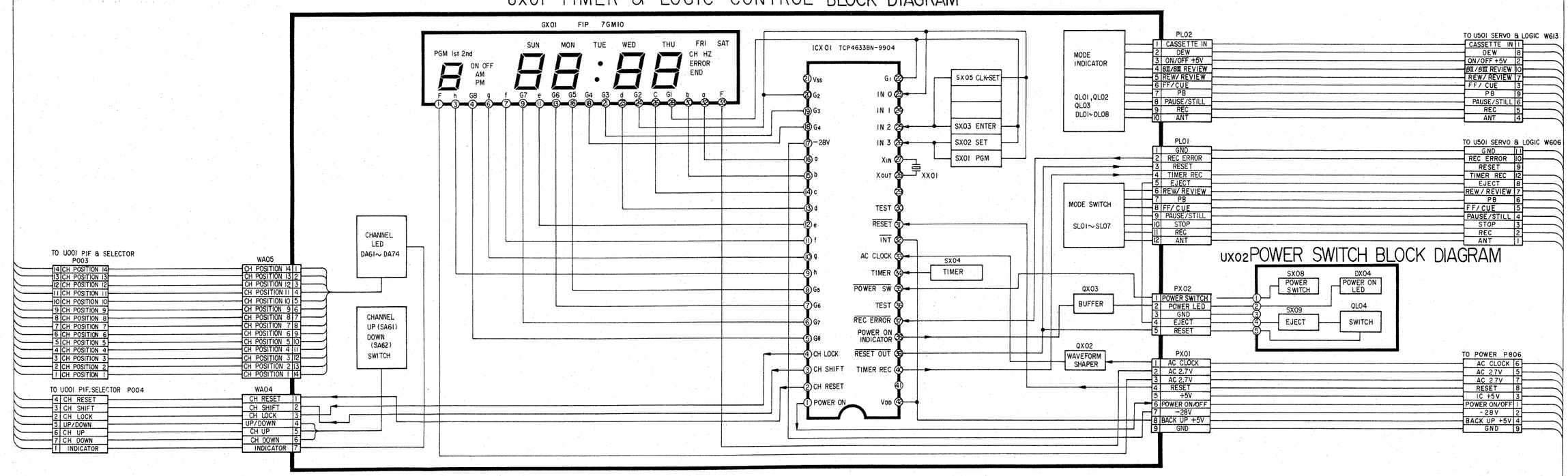
U802 LINE FILTER BLOCK DIAGRAM



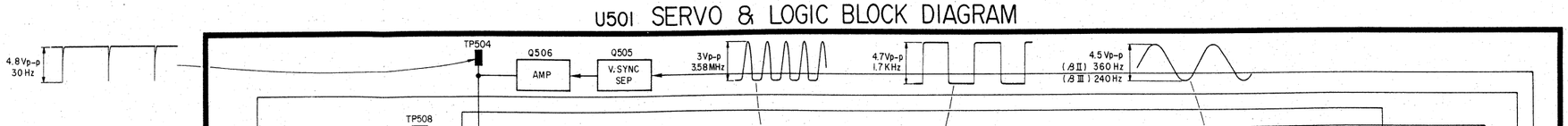
U001 PIF & SELECTOR BLOCK DIAGRAM



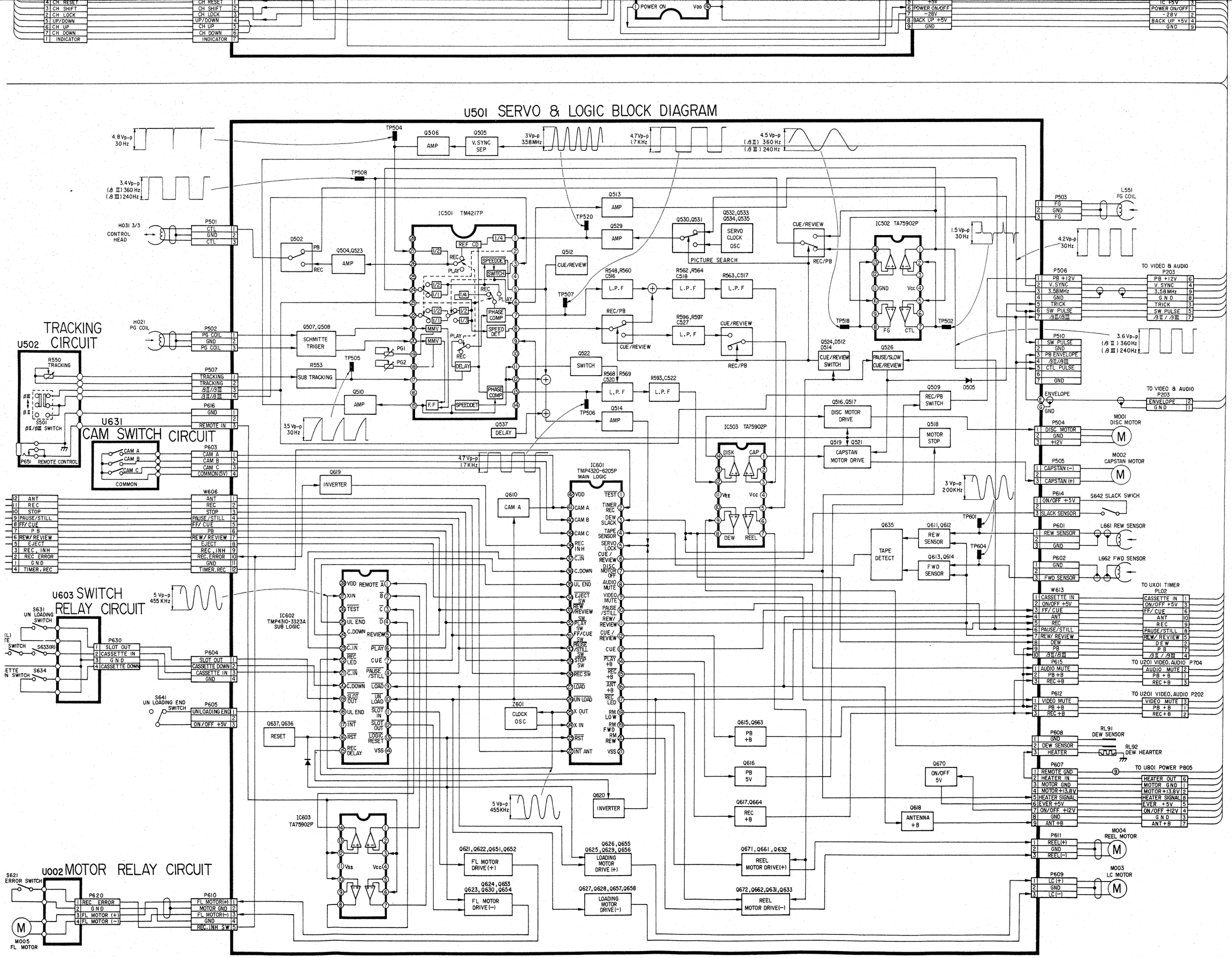
UX01 TIMER & LOGIC CONTROL BLOCK DIAGRAM



U501 SERVO & LOGIC BLOCK DIAGRAM



U501 SERVO & LOGIC BLOCK DIAGRAM

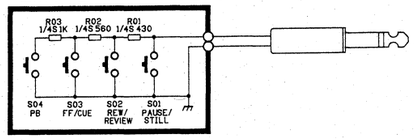


TOSHIBA

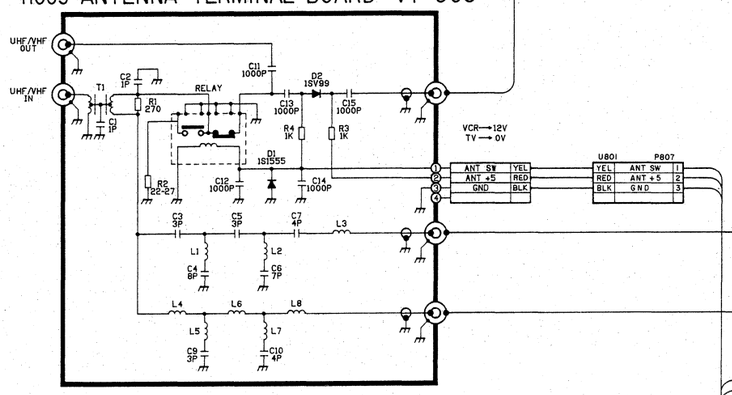
SCHEMATIC DIAGRAM OF V-C300

- +B
- Recording mode
- Playback mode
- Recording Y signal
- Playback Y signal and Trick mode
- Recording and playback mode

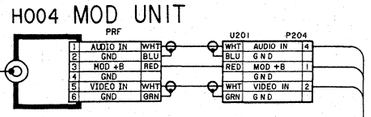
REMOTE CONTROL CIRCUIT



H003 ANTENNA TERMINAL BOARD VT-906

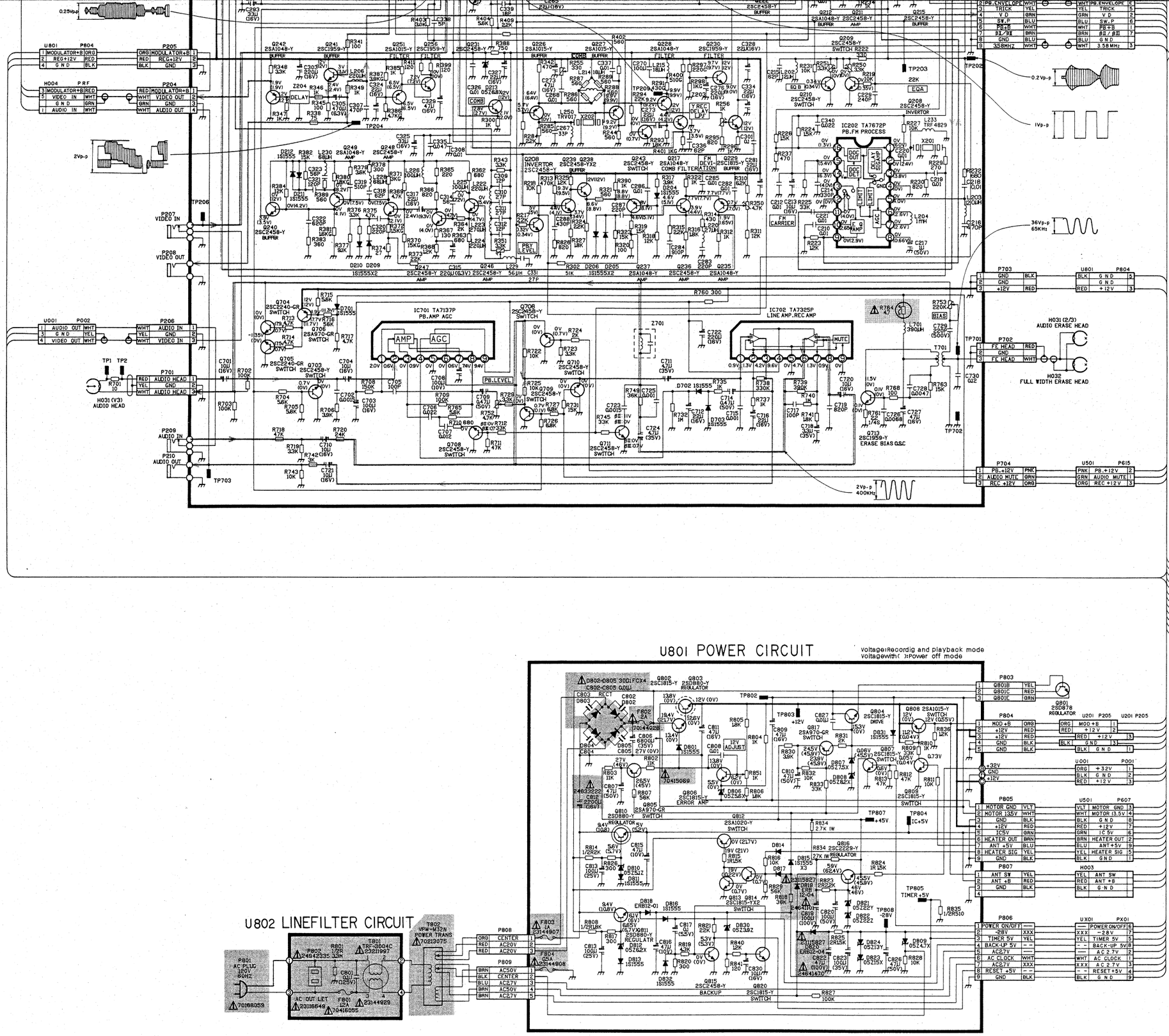


H004 MOD UNIT

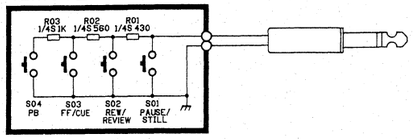


U201 VIDEO & AUDIO CIRCUIT

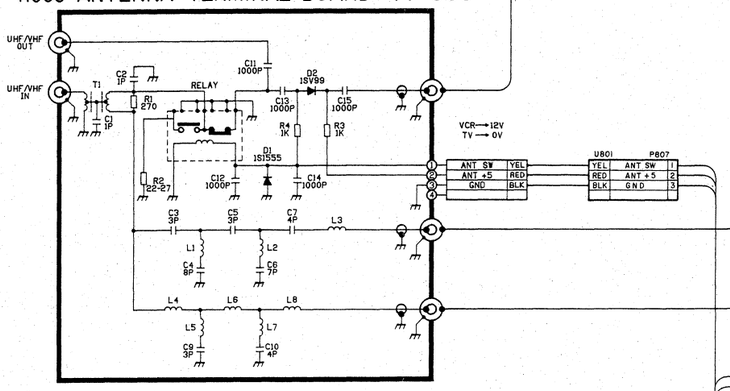
voltage:Recordig mode
voltage( ):Playback mode


IC701 TA7137P PB.AMP AGC
IC702 TA7325P LINE AMP.REC AMP
IC202 TA7672P PB.FM PROCESS
U502 TRACKING
U631 CAM SWITCH
U603 SWITCH
U002 MOTOR
H031 (2/3) AUDIO ERASE HEAD
H032 FULL WIDTH ERASE HEAD
H031 (V3) AUDIO HEAD
TRACKING
S501 8I/8II SWITCH
P651 REMOTE CONTROL JACK
SLOT OUT SWITCH S631
CASSETTE DETECT SWITCH
S634 CASSETTE DOWN SWITC
ERROR ERASE SWITCH
FL MOTOR
U801 P804
P803
P804
P805
P806
P807
P808
P809
P801 AC PLUG 120V 60HZ
AC OUT LET
T801 TRF-3004C
T802 VPW-M32N POWER TRANS
U802 LINEFILTER CIRCUIT
U801 POWER CIRCUIT
Voltage:Recordig and playback mode
Voltagewith( ):Power off mode

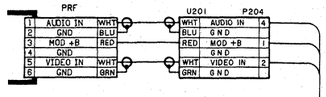
REMOTE CONTROL CIRCUIT



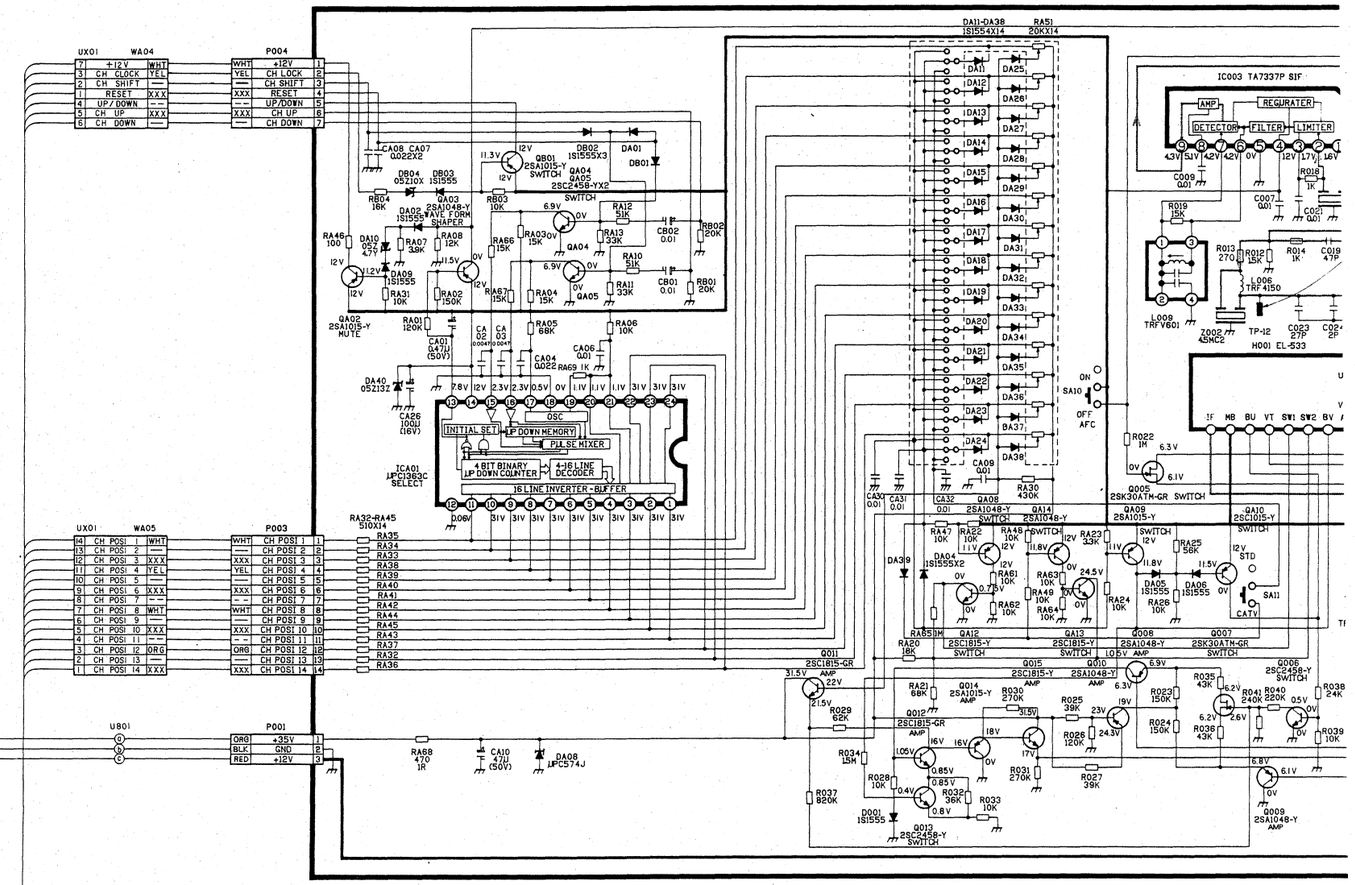
H003 ANTENNA TERMINAL BOARD VT-906



4 MOD UNIT

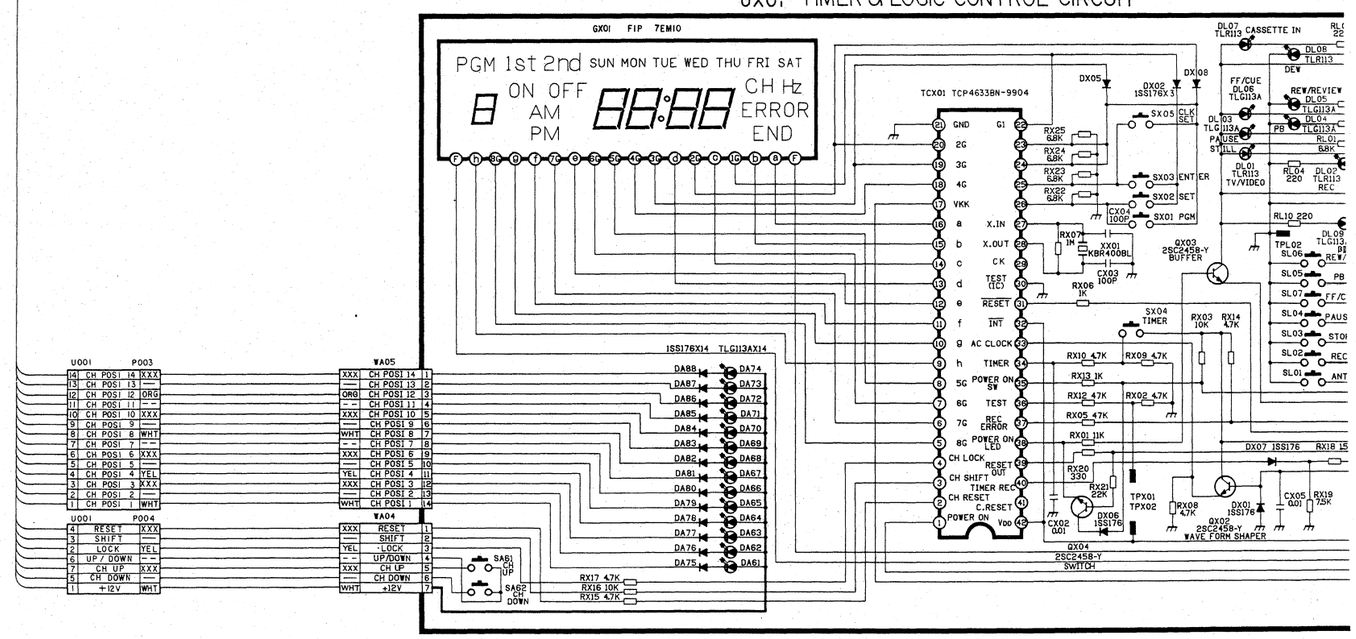


U001 PIF & SELECTOR CIRCUIT

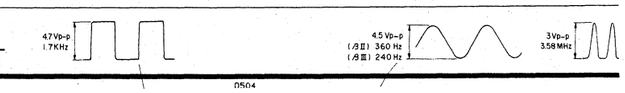


U201 VIDEO & AUDIO CIRCUIT

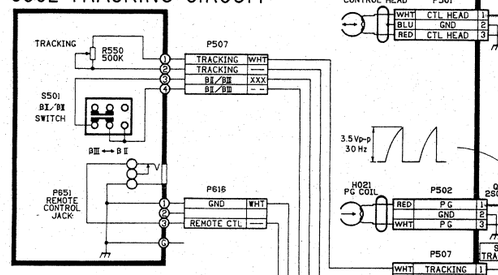
UX01 TIMER & LOGIC CONTROL CIRCUIT



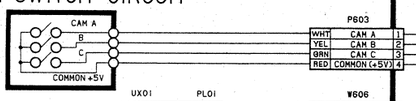
U501 SERVO & LOGIC CIRCUIT



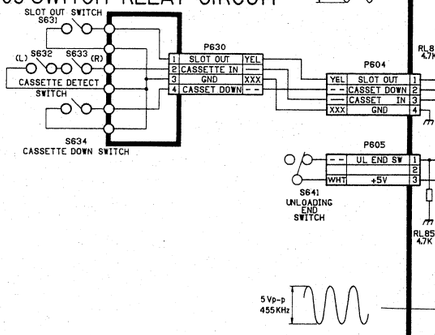
U502 TRACKING CIRCUIT



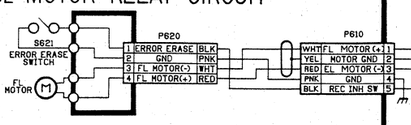
U631 CAM SWITCH CIRCUIT



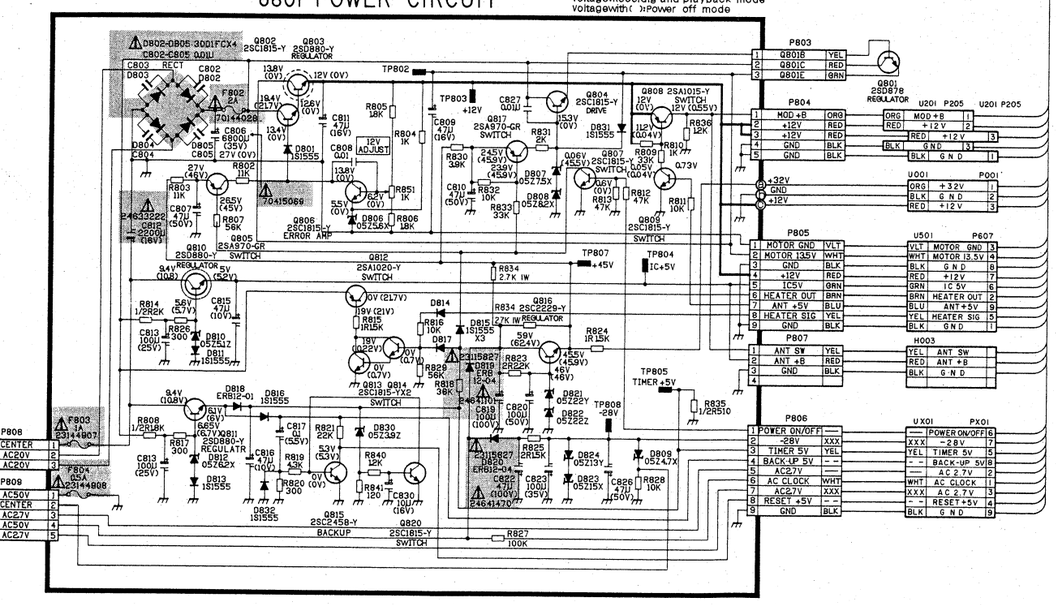
U603 SWITCH RELAY CIRCUIT

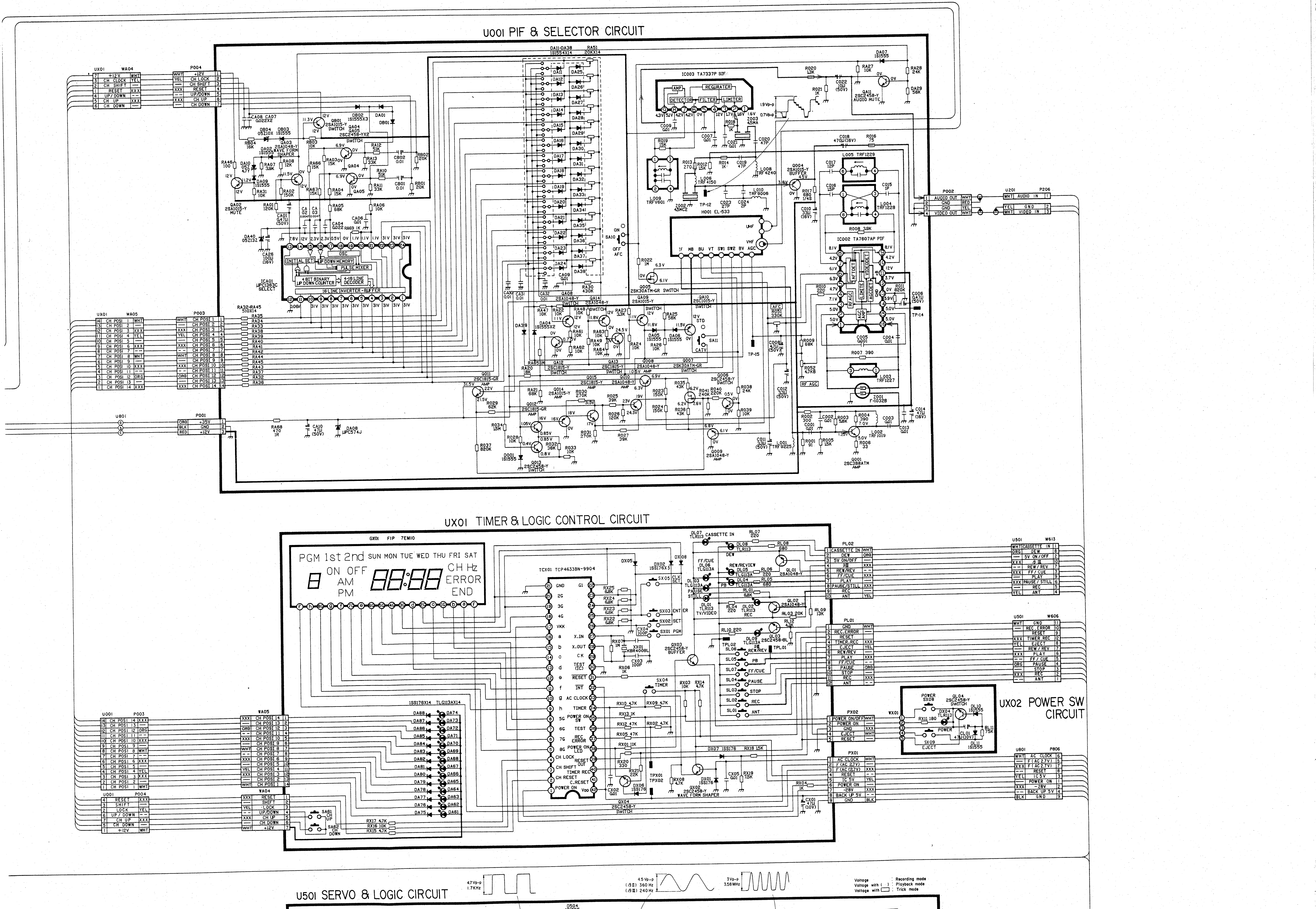


U002 MOTOR RELAY CIRCUIT



U801 POWER CIRCUIT




U001 PIF & SELECTOR CIRCUIT
IC003 TA7337P SIF
IC002 TA7607AP PIF
ICA01 μPC1363C SELECT
H001 EL-533
UX01 TIMER & LOGIC CONTROL CIRCUIT
GX01 FIP 7EM10
TCX01 TCP4633BN-9904
PGM 1st 2nd SUN MON TUE WED THU FRI SAT
ON OFF
AM
PM
CH Hz
ERROR
END
UX02 POWER SW CIRCUIT
U501 SERVO & LOGIC CIRCUIT
4.7Vp-p 1.7KHz
4.5Vp-p (βII) 360Hz (βIII) 240Hz
3Vp-p 3.58MHz
Voltage : Recording mode
Voltage with ( ) : Playback mode
Voltage with ▭ : Trick mode

U501 SERVO & LOGIC CIRCUIT

U502 TRACKING CIRCUIT

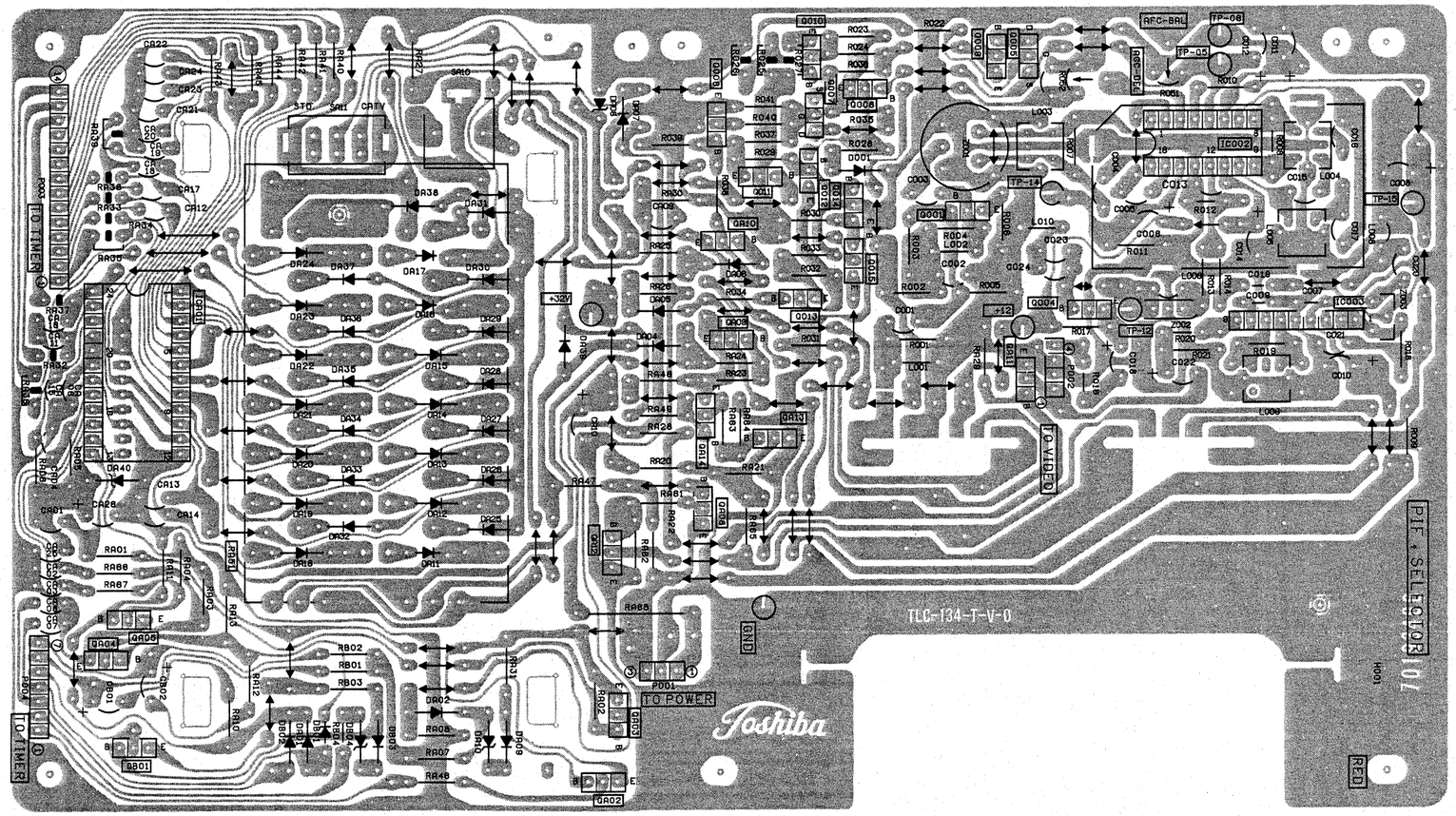
U631 CAM SWITCH CIRCUIT

U603 SWITCH RELAY CIRCUIT

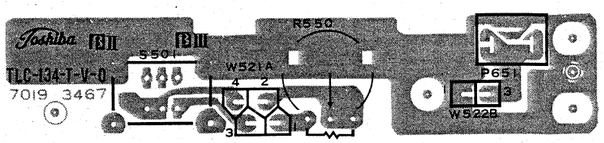
U002 MOTOR RELAY CIRCUIT

Voltage ( ) : Recording mode
Voltage with ( ) : Playback mode
Voltage with [ ] : Trick mode

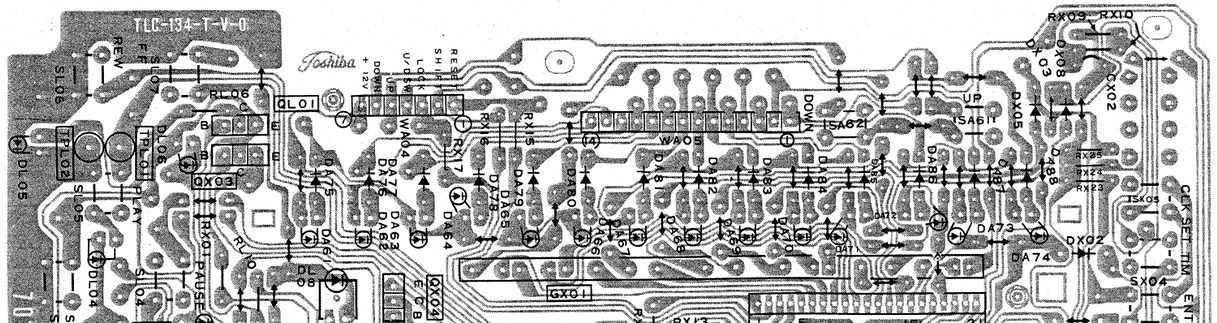
U001 PIF & SELECTOR



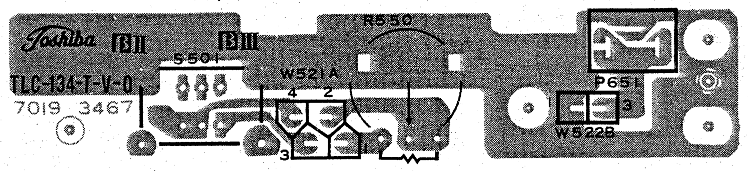
U502 TRACKING CONTROL

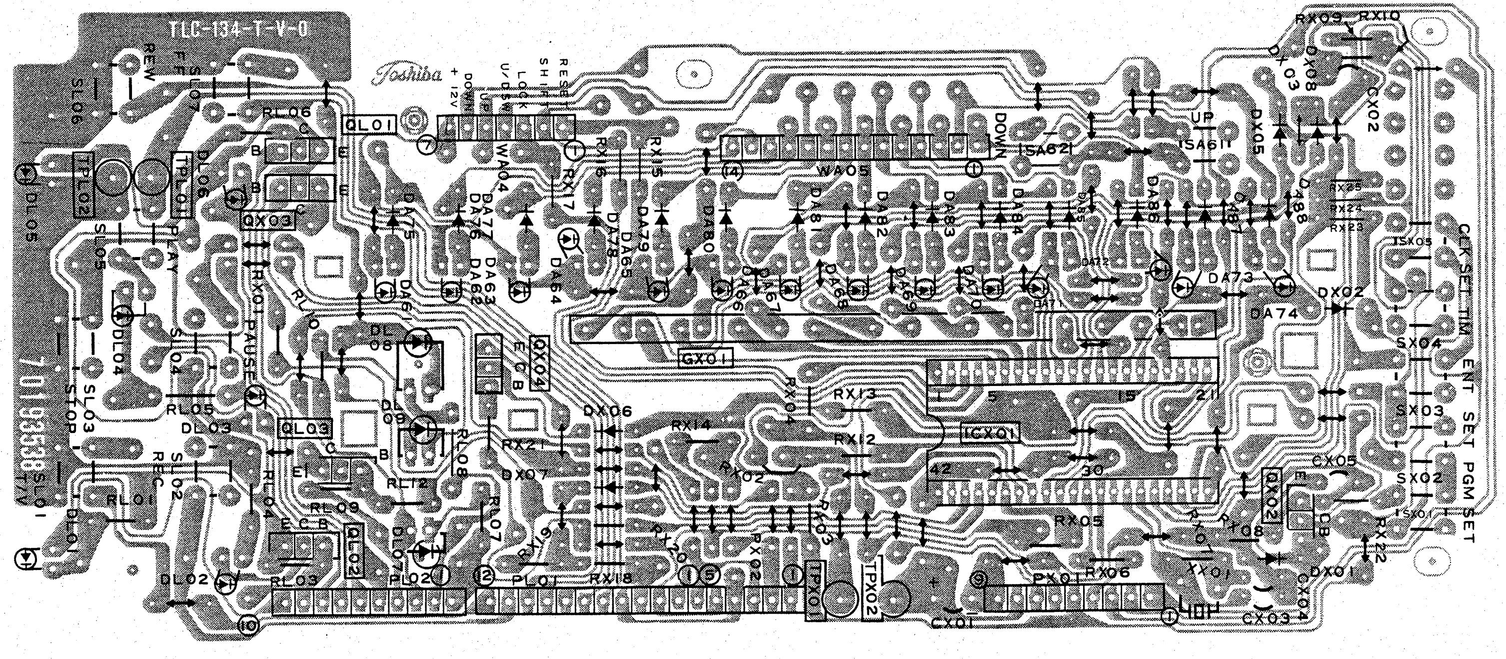


UX01 TIMER & LOGIC CONTROL

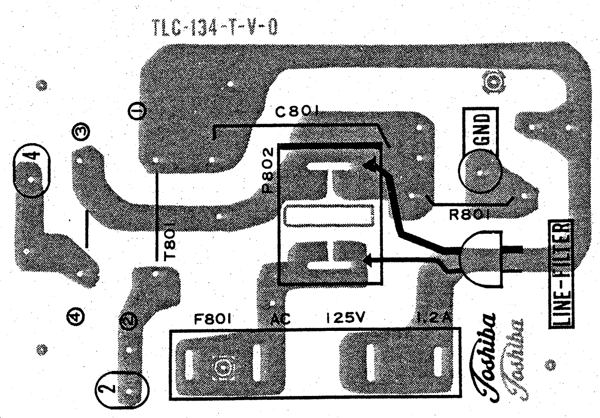


U502 TRACKING CONTROL

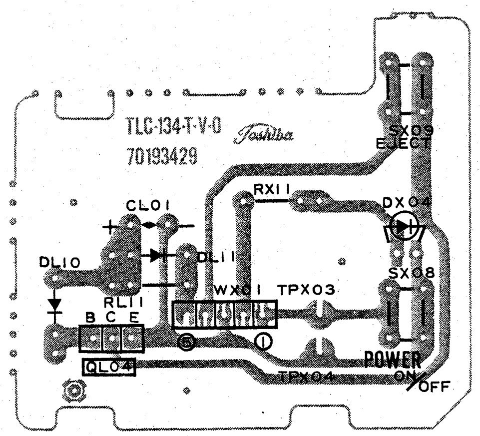




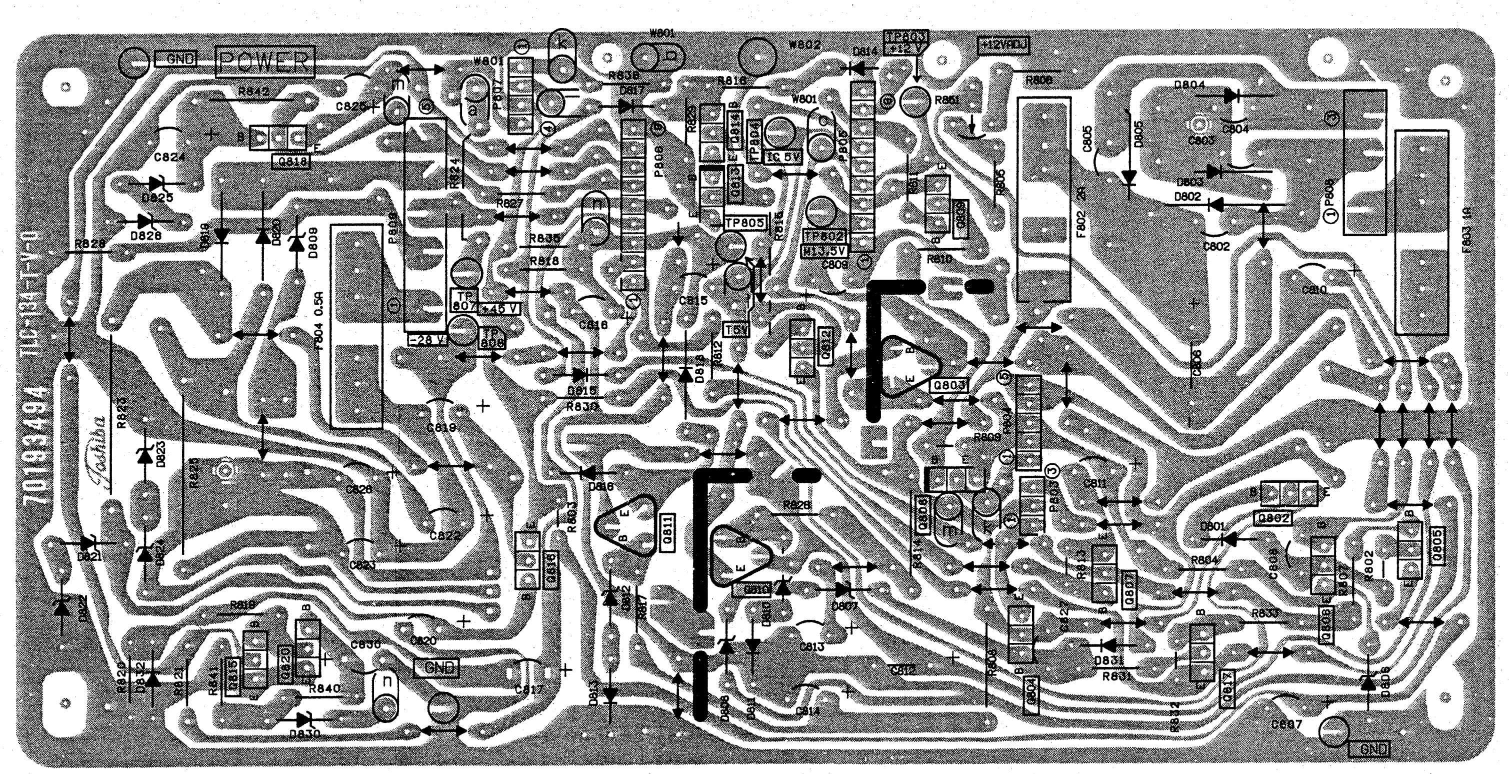
U802 LINE FILTER



UX02 POWER SWITCH

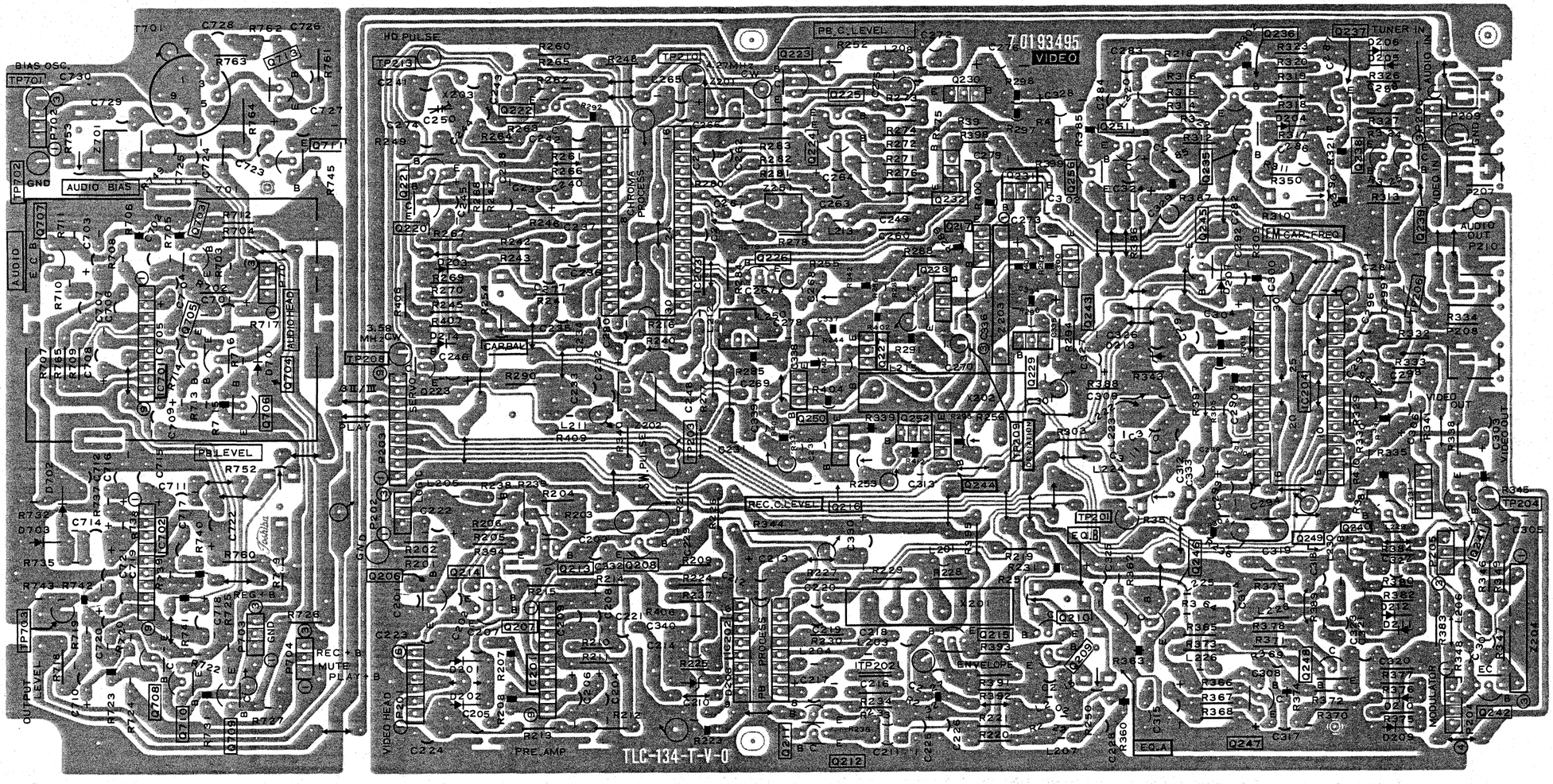
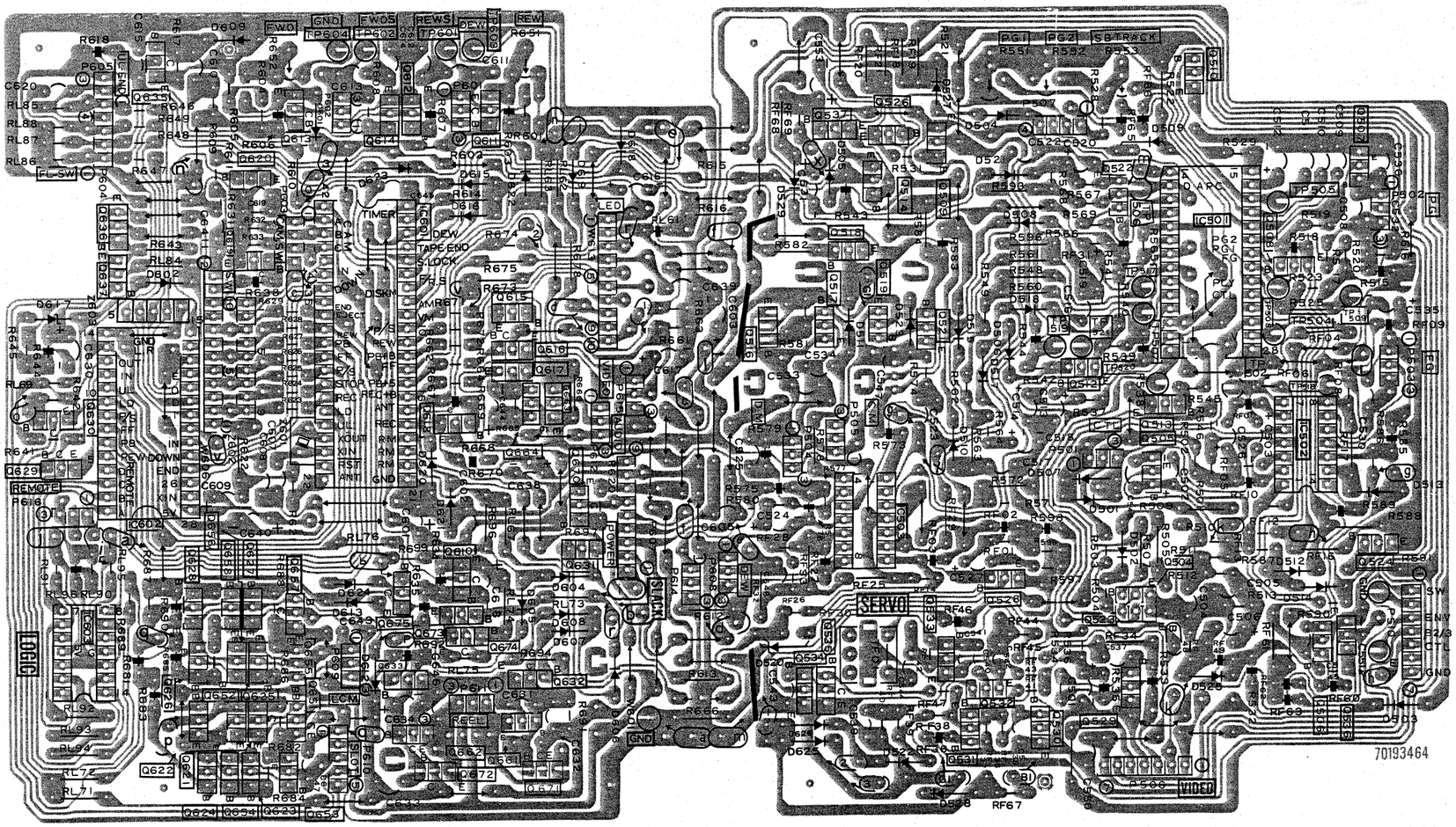


U801 POWER



PRINTED WIRING BOARDS OF V-C300

U201 VIDEO & AUDIO



U501 SERVO & LOGIC